



**US Army Corps
of Engineers®**



**Department of the Army
Facilities Standardization Program**

JUDICIAL CENTER (JC)

Standard Design

**Revision 2.1
28 June 2019**

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1.0 GENERAL STANDARD DESIGN PROGRAM INFORMATION

1.1. PURPOSE

This standard design for the Judicial Centers (JC) Army Standard defines the functional requirements for Planning, Design, and Construction of all Army JC facilities worldwide to administer military justice including Article 32 hearings, general courts-martial, special courts-martial, summary courts-martial and magistrate proceedings. Project facility includes six functional areas: Courtroom, Judge's Chambers, Staff/Administration Areas, Deliberation Suite, Support Areas, and Public Areas. Co-location of a Judicial Center with functions and operations other than those of the Staff Judge Advocate (in accordance with AR 27-1, Legal Services) is prohibited and will not be considered for a waiver. Facilities renovated to serve as Judicial Centers shall meet mandatory requirements for the Courtroom, Deliberation Room and Judges Chambers including all technology and access control requirements contained herein, unless otherwise determined through the waiver process.

1.2. BACKGROUND

This standard design was developed by Louisville District in-house staff in accordance with guidance provided by Headquarters, Department of the Army (HQDA), including Facility Design Team (FDT) members from Army staff agencies, Office of the Assistant Chief of Staff for Installation Management (OACSIM), and Installation Management Command (IMCOM). This standard design is monitored and approved by the facility proponent, Office of the Judge Advocate General (OTJAG).

1.3. ARMY FACILITIES STANDARDIZATION PROGRAM

This standard design package complies with the Army Standard as established by the Department of the Army Facilities Standardization Program implemented by the Army Facilities Standardization Committee (AFSC).

1.4. CENTER OF STANDARDIZATION

The Louisville District is the U.S. Army Corps of Engineers (USACE) Center of Standardization (COS) responsible for documenting and mandating JC standards and criteria in coordination with the proponent, OTJAG. The COS serves as the point of contact to review all JC designs and renovations for compliance with this Army Standard and this standard design.

1.5. WAIVER REQUESTS

Waiver requests against the Army Standard must be approved by the COS, the OTJAG proponent, the Facility Design Group (FDG), and the AFSC. Waiver requests against the Standard Design must be approved by the COS and the OTJAG proponent. The Installation is responsible for initiating a waiver request in accordance with AR 420-1.

1.6. RFP WIZARD

The standard design shall be implemented in conjunction with the RFP Wizard, which includes requirements for Antiterrorism and Force Protection (AT/FP), Unified Facilities Criteria (UFCs), building codes, and sustainable design requirements within an automated design-build package development system. Coordinate with the project manager and the MRSI site, <https://mrsi.erdcdren.mil/model-rfp/> for use of the web-based RFP Wizard.

1.7. INSTALLATION SPECIFIC REQUIREMENTS

During development of the RFP Package, in addition to the RFP Wizard's paragraph 6 which addresses installation requirements, the following issues shall be considered and included in the RFP Package accordingly:

A. **PUBLIC PARKING SPACES:** Parking for the general public over the minimum 30 plus 2 handicap accessible spaces may be as determined by the Installation.

B. **SEPARATE PARKING SPACES:** Parking for the Judges, panel members, and command (security personnel) over the 10-20 plus 2 handicap accessible spaces may be as determined by the Installation.

C. DROP-OFF AREA: A fenced area may be included, in addition to a gate at the secure access drive, for the detainee drop-off area as determined by the Installation for increased security.

D. ATFP UNOBSTRUCTED SPACE: The Installation may choose to allow parking and/or access roads within the ATFP minimum required unobstructed space which is 33 feet from the perimeter of the building. The Standard Design recommends no parking or access roads within 33 feet of the building for increased security measures.

1.8. LEED COMPLIANCE

Refer to attachment B "JC LEED v4 BD+C Checklist" for information regarding the Judicial Center Standard Designs LEED and Sustainable Design compliance strategies. Installations, DOR's, and project design teams may choose specific credits for compliance based on opportunities each individual project may or may not offer. The information included in attachment "B" is intended to be starting point for LEED and Sustainable Design compliance planning for Judicial Center Standard Design projects.

1.9. JUDICIAL CENTER FACILITY CATEGORY CODE & FLOOR AREA

JC FACILITY CATEGORY CODES & FLOOR AREAS			
Facility Type	Category Code	* Standard Design Area	Notes
Judicial Center (JC)	61075	12,983 GSF	Total Area provided for Judicial Center is 12,983 GSF in the Std Design as calculated in accordance with UFC 3-101-01. The Army Standard allows for a maximum 13,500 GSF for flexibility in structural systems, climate, and utility space over that shown in the Standard Design.

*See Drawings in Attachment A for Area Calculations

2.0 SCOPE

2.1. JUDICIAL CENTER (JC) WITH COURTROOM

Provide a Judicial Center (JC) with Courtroom to administer Military Justice including Article 32 Hearings, General Courts-Martial, Special Courts-Martial, Summary Courts-Martial and Magistrate proceedings. This facility type shall be similar both functionally and technically to U.S. and Municipal Courthouses in the private sector.

The total maximum gross area for this facility is 13,500 square feet.

The building shall conform to the Army Standard Design (SD), Paragraph 3 Functional Requirements, Referenced Criteria, all Applicable Criteria, and project location specific requirements in Paragraph 6.

2.2. SITE

Provide all site improvements necessary to support the new building and supporting facilities. Supporting facilities include, but are not limited to utilities, electric service, exterior and security lighting, fire protection and alarm systems, water, gas, sewer, parking, landscaping and handicap accessibility.

2.3. GOVERNMENT FURNISHED / GOVERNMENT INSTALLED EQUIPMENT (GFGI)

Coordinate with Government on GFGI item requirements providing suitable structural support, brackets for projectors/TVs, all utility connections, and space with required clearances. All equipment including computers (and related hardware), copiers, printers, DVRs, and TVs are GFGI.

2.4. FURNITURE AND EQUIPMENT REQUIREMENTS

Provide furniture and equipment design for all spaces, including existing furniture and equipment to be re-used. Coordinate with the user to define requirements for the furniture systems, moveable furniture, equipment, existing items to be re-used, storage systems, etc. Early coordination of furniture schedule is required so that facility is complete and usable at turnover. Furniture and equipment procurement is not included in this contract.

3.0 JUDICIAL CENTER (JC)

3.1. GENERAL REQUIREMENTS

A. PURPOSE: Provide a Judicial Center with courtroom to administer Military Justice including Article 32 Hearings, General Courts-Martial, Special Courts-Martial, Summary Courts-Martial and Magistrate proceedings. A Judicial Center Facility has similar functions and technology as a courthouse in the private sector; therefore the design and construction practices shall be consistent with courthouse industry standards in compliance with the military construction requirements herein.

B. BUILDING-LIFE EXPECTANCY: As an Army objective, the Judicial Center shall have a 25-year useful life before needing any major renovation, repair, or replacement. Therefore, the design and construction shall provide an appropriate level of quality to ensure the continued use of the facility over this time period with the application of reasonable preventive maintenance and repairs that would be industry-acceptable to a major civilian sector project owner. The site infrastructure shall have at least a 50-year life expectancy with industry-accepted maintenance and repair cycles.

C. ENERGY CONSERVATION: The government is required by Public Law 102-486, Executive Order 12902, and Federal Regulations 10 CFR 435 to design and construct facilities in an energy-conserving manner while considering life cycle cost over the life of the facilities.

D. SITE: Develop the project site for efficiency with a sense of unity or connectivity with adjacent buildings and the Installation.

E. CONSTRUCTION QUALITY: Requirements stated herein are minimums. Innovative, creative, and life cycle cost effective solutions, which meet or exceed these requirements are encouraged. The Offeror is encouraged to seek solutions that will expedite construction (panelization, pre-engineered, etc.) and shorten the schedule. The intent of the government is to maximize the placement of funds into functional/operational requirements. Choice of materials and methods shall reflect this by choosing the lowest Type of Construction allowed by code for this occupancy allowing the funding to be reflected in the quality and durability of interior and exterior finishes and selected systems.

3.1.1. FACILITY DESCRIPTION

A. FUNCTION: A Judicial Center includes a courtroom, judges' chambers, staff areas, deliberation suite, support areas, and public areas.

B. STANDARD DESIGN: The Standard Design (SD) graphically integrates Army Standard (AS) requirements, such as net square footage, functional adjacencies, and security control zones into functional plans. Minimum site requirements are also indicated in the SD, but variations are considered, based on locality and actual site conditions. Exterior elevations shown in the SD illustrate possible architectural schemes. Designers of Record (DOR) shall utilize Installation, regional, and climatic criteria to influence the design. Modifications to floor plans are possible assuring the Army Standard is maintained and the modifications formally approved by a COS waiver. If a conflict exists with other criteria in this RFP, the more stringent criteria shall apply.

3.1.2. FACILITY RELATIONSHIPS

A. FUNCTIONAL SITE REQUIREMENTS: : The Judicial Center site illustration represents an ideal site layout to accommodate the Judicial Center's functions. Variations may be implemented to accommodate specific site conditions and parameters. Alternative site layouts shall utilize the mandatory site requirements imposed by the Army Standard (AS) and Standard Design (SD) to include the following:

- 1) **AS Requirement:** Provide minimum 30 parking spaces for general public parking with sidewalk access and proximity to the front building entrances plus two ABA compliant spaces. The Installation may require additional parking spaces.
- 2) **AS Requirement:** Provide maximum 10 parking spaces for Judges, Command, and panel members in a parking area separated from the general public parking with access and proximity to the back building entrances including two ABA compliant spaces. The OTJAG proponent supports adjustment to provision of 15-20 parking spaces plus two ABA compliant spaces to accommodate 3 Judges, 12 panel members, and 5 Command personnel. The Installation may require additional parking spaces.
- 3) **AS Requirement:** Provide a covered parking space attached to the building, adjacent to the Holding/Lawyer-Client office with maneuverable space for doors of a large ABA accessible van (size similar to a 15-passenger van) to drop off detainees, sheltered from the weather to enter the building.
- 4) **SD Requirement:** Provide a secure access drive to the detainee drop-off covered parking space including a control access gate that can be used when needed. This secure access drive may also be used to access the utility rooms for maintenance.
- 5) **SD Requirement:** Provide a 33-ft unobstructed space around the building perimeter as required by UFC 4-010-01 DoD Minimum Antiterrorism Construction Standards. In addition, position all parking, the access drive, and public roads outside the unobstructed space, except for the secure access drive.
- 6) **SD Requirement:** Provide a mechanical yard with access gates near the secure access drive for maintenance vehicles.

B. **BUILDING DESIGN PHILOSOPHY:** Maintaining good order and discipline in the Army may, on occasion, require judicial proceedings. In order to ensure fair and just adjudication and administering of punishment, an efficient and highly functional facility is required. Up to date well planned Courtrooms are vital in this process. The need for consistency between Installation Judicial Centers in the definition and allocation of functional space to properly conduct judicial proceedings is required.

- 1) **Courtrooms and Support Spaces:** Courtrooms and courtroom support spaces, court administration offices, and special ancillary functions are required to adequately support the hearing and delivery of judicial proceedings such as: Article 32 Hearings, General Courts-Martial, Special Courts-Martial, and Summary Courts-Martial and Magistrate proceedings.
- 2) **Telecommunications and Electronic Data:** Consideration of electronic data and communications technology applications to maintain efficient and effective conduct of proceedings are mandatory features that minimize cost of judicial activities.
- 3) **Specific Design Considerations:** Provide durable facilities to withstand the rigors of multiple and temporary users of various functional spaces.

3.1.3. ACCESSIBILITY REQUIREMENTS:

A. **ABA COMPLIANCE:** Interior and exterior of the facility and site shall fully comply with the Architectural Barriers Act (ABA) Accessibility Standards, applied as required by DoD.

3.1.4. BUILDING AREAS:

A. **GENERAL:** Area requirements for circulation space and utility rooms are to the discretion of the designer of record in accordance with applicable codes and requirements, counted in the gross square footage allowance reflected in Attachment A. Coordinate column spacing and layout with the building floor plans concealing columns within or aligning with walls. Plan column placement to not interfere with the functionality of the space, providing clear spans for the entire courtroom.

B. **GROSS AREA:** Maximum building gross areas indicated in paragraph 2.0 SCOPE shall not be exceeded. A smaller overall gross area is allowed if all functional relationships in the floor plans and mandated net areas in Attachment A are met. Clearly indicate proposed overall building gross area calculation, to include net areas plus half scope areas, not exceeding the maximum Army Standard building gross area.

C. **HALF SCOPE AREA:** Half scope areas shall be included in the gross area for the porches, overhangs greater than 3'-0" in width, and covered but not enclosed passageways or walks. The full area of these spaces divided by two shall be added to the gross area.

D. **EXCLUDED SPACE:** The following shall not be included in the gross building area: Crawl spaces or space under access floors; roof overhangs and soffits for weather protection 3'-0" or less in width; uncovered stoops; and utility tunnels and raceways.

E. **NET AREA:** The standard floor plans mandate authorized space allowances for the functional areas as indicated on the drawings in Attachment A in the functional space requirements matrix. Net area is measured to the inside face of the room finish walls. Net area requirements for programmed spaces are sized to accommodate the functional requirements, overall gross area limitations, and other recognized design principles. If net area requirements are not indicated as mandated, the space shall be sized to accommodate the required function, comply with code requirements, and comply with overall gross area.

3.1.5. ADAPT BUILD MODEL – NOT USED

3.2. FUNCTIONAL AND OPERATIONAL REQUIREMENTS

3.2.1. FUNCTIONAL SPACES

A. **GENERAL:** The Judicial Center is comprised of three functional areas; the Courtroom and Staff areas, the Judge's Chambers, and public areas.

1) **Courtroom and Staff:** The courtroom shall be designed as the focal point of the Judicial Center (JC) Facility. All functional areas shall revolve around the courtroom. The courtroom space shall be configured as an unobstructed single open space to enable presentation of evidence by both defense and prosecution and for that evidence to be heard by a judge, accused, court reporter, panel members and the general public. Spatial separation between parties shall be incorporated within the courtroom, no more than 10 feet. The Courtroom shall be provided with permanent elements and features associated with judicial activities. Separated ancillary spaces for defense and prosecution/trial counsel and panel deliberation are required. Court administrative staff functions shall be integrated into the courtroom, including electronic audio/video recording and telecommunication. A public visitor gallery is required.

2) **Judges Chambers:** Judge's chamber and support facilities including separate administrative staff office spaces are required adjacent to and separate from the courtroom. Courtroom access adjacent to the judge's bench is required.

3) **Public Access:** A public lobby area outside and adjacent to the courtroom gallery entrance is required. Access control by both visual and electronic/mechanical means will be provided. Doorways and adjacent space shall be capable of accommodating these devices and providing a clean flow of courtroom participants in the sanitized area when needed.

B. **PRIMARY SPACES:** The following spaces and features are considered mandatory requirements for a standard design Judicial Center:

1) **Courtroom:** All elements required for stationing of the Courtroom participants (except the lectern and counsel tables) shall be permanently mounted fixtures with fully wired outlets for power, audio, and video. The courtroom shall have three different access and egress routes: private route for the judge and court members secured with cipher locks; semi-private route for the council, witnesses, and accused; and public route for the spectators. Include no columns and a raised floor system to accommodate electronic equipment in the courtroom. Depression of the raised floor system is recommended to minimize the need for ramps. The courtroom ceiling height shall be at least 16 feet, but no more than 20 feet. An acoustical ceiling tile shall be used to reduce sound reverberation. No exterior windows shall be provided in the courtroom. Within the Courtroom, the following areas are required:

a) **Judge's Bench:** The judge's bench shall be considered the focal point of the courtroom, permanently constructed, and integral to the woodwork and trim within the courtroom. The bench shall be raised above the finished floor elevation no less than 12 inches or above the highest raised platform within the courtroom by 6 inches. The Judge must have a complete and unobstructed view of all elements (court reporter, witnesses, panel members, counsel and accused) within the courtroom when seated on the bench. The bench shall be adjacent to

the court reporter's box with the ability to pass papers and other objects to the reporter either over the rail or through a pass-through box opening. Flag etiquette shall be incorporated into the courtroom design rather than appearing as an afterthought. Typically each courtroom has a departmental flag and a US flag which shall flank the judge, behind the judge's bench. The bench shall be provided with the following features:

- (1) A flat writing surface minimum 24 inches deep and 60 inches wide or totaling at least 1440 square inches.
- (2) A drawer below the writing surface.
- (3) A top rail of no less than 4 inches surrounding the entire perimeter of the bench as measured from the top of the writing surface.
- (4) A silent duress alarm button, wired to the post Provost Marshall's Desk Sergeant, within immediate reach from the bench seat, mounted on the underside of the writing surface.
- (5) Two electrical duplex outlets (4 outlets total) within immediate reach of the bench.
- (6) An ABA accessible, separate entrance for the judge to the bench in close proximity to the judge's chambers.

b) **Reporter/Recorder's Box:** The reporter's box shall be immediately adjacent to the judge's bench with an unobstructed view of the judge, counsel, witness, and accused. An ability to pass material back and forth to the judge without difficulty shall be incorporated. The box shall have the following features:

- (1) Elevated 6-7 inches above the finished floor, equal to the witness stand.
- (2) Flat writing surface no less than 24 inches deep and 48 inches wide.
- (3) Top rail no less than 4 inches surrounding the entire perimeter of the reporter's box as measured from the writing surface.
- (4) Three electrical duplex outlets (6 outlets total) within immediate reach of the recorder.
- (5) ABA accessible path from Well Area.

c) **Members' Box:** Members' box shall be constructed to comfortably fit a minimum of 12 people (maximum of 14) in a tier-format, splitting the seats into two rows, having unobstructed views of the witness, judge, counsel, and accused. The back tier shall be raised 6 to 8 inches above the finished floor of the first tier. The members box shall include the following features:

- (1) Writing surface no less than 18 inches deep.
- (2) 4 inches minimum top rail surrounding the entire perimeter of the members' box as measured from the writing surface.
- (3) Permanently mount plugs, connections, and outlets within the rail; no floor mounted outlet and plug boxes.
- (4) One power outlet for each member below the writing surface.
- (5) Separate entrance into courtroom/member's box within close proximity to the Deliberation room so that member's do not interact with the public.
- (6) At least one space for wheel chair use, ABA compliant.

d) **Witness Stand:** The witness stand shall be fully visible from the judge's bench, members' box, counsel tables, and the reporter's box. The stand shall include the following features:

- (1) Writing surface no less than 18 inches deep and 36 inches wide.
- (2) Elevated 6-7 inches above the finished floor, equal to the reporter's box.
- (3) Top rail no less than 4 inches surrounding the entire perimeter of the reporter's box as measured from the writing surface.
- (4) Permanently mount plugs, connections, and outlets within the rail; no floor mounted outlet and plug boxes.
- (5) ABA compliant.

- e) **Counsels' Area:** Provide an area to accommodate two tables for the defense counsel and trial counsel, not fixed to the floor; therefore included in the FF&E Package.
- f) **Lectern Area:** Provide an area to accommodate a lectern having locking wheels to allow easy relocation, therefore included in the FF&E Package.
- g) **Well Area:** The area immediately in front of the judge's bench and to the rail separating the gallery area is considered the "well area". Location of the front of the judge's bench shall be at least 15 feet from the front of the counsel tables. Separation from the front of the lectern to the judge's bench shall be at least 10 feet. Location of the front of the counsel tables to the gallery railing shall be at least 10 feet. Provide floor, flush-mounted brass utility box faceplates that are not trip hazards. Include a television screen, dry-erase board, and video equipment.
- h) **Gallery:** Provide seating space for 25-50 visitors in the Gallery to include ABA accessibility. Public entry into the gallery shall be from one central point having double doors to the lobby. Door mechanisms shall be silent, not causing disruption of courtroom proceedings.
- i) **Gallery Railing:** The railing separating the gallery from the official proceedings shall include a minimum of one gate at the center of the railing length, or may have two gates at either end of the railing length. Gates shall have a positive catch-latch that is operable from the well side. Railing shall be between 32 inches and 38 inches high and constructed of rails, stiles, posts, panels, pickets, or other such pieces so as to provide an unobstructed view. The railing shall be placed on top of the raised floor.
- 2) **Multipurpose Room:** Provide a room with a white board, table, and chairs for at least eight persons to accommodate media and press coverage with direct access to the lobby.
- 3) **Magistrate Work Area:** Provide a work area for magistrates with direct access to the lobby. Space shall accommodate two workstations and lateral files. Include a roll-up window to the lobby with a built-in counter on the magistrate's side.
- 4) **Deliberation Suite:** The deliberation room shall accommodate a conference table and chairs for at least 12 persons with a direct route to the member's box in the courtroom. Provide no passage through the gallery or public areas. Provide a direct exit to the outside of the building, separate from public access and egress routes. The room shall include the following features:
 - a) Fully carpeted floors.
 - b) No vents, grills, or windows (clear or opaque) within the doors.
 - c) Sound gaskets for all doors, at frames and thresholds.
 - d) No ceiling grid vent leading to any open plenum for return air.
 - e) Direct access to one unisex restroom.
 - f) Direct access to a kitchenette with a counter, shelf, sink, and cupboard to accommodate a microwave and coffee machine.
 - g) Direct access to two vending machines.
 - h) One full service telephone with DSN capabilities.
 - i) Coat hooks.
 - j) One dry erase board 4 feet x 8 feet.
- 5) **Judge's Chamber:** Three judges' chambers shall be included, each with sufficient space for private consultation for at least 3-6 other seated persons. Provide the following features for each:
 - a) Direct access to and from the judge's bench in the courtroom without passing through the gallery or any public passageway or public space.
 - b) Direct exit to the outside of the building separate from public access and egress routes.
 - c) Fully light-checked for any gaps and spaces around the closed door.
 - d) No vents, grills, or windows (clear or opaque) within the door.
 - e) Sound gaskets in all doors, frames and thresholds to maintain STC rating.
 - f) No ceiling grid vent leading to an open plenum for return air.

- g) Two - dual voice/data communication outlets in appropriate wall locations, one with DSN capabilities.
- h) A separate dedicated restroom near the office suite shared with court reporters.
- i) Space for a freestanding bookcase or bookshelf.
- j) A silent duress alarm button, wired to the post Provost Marshall's Desk Sergeant, within immediate reach when seated, mounted on the desk.
- 6) **Court Reporter's Office:** Provide a dedicated office space for two court reporters to serve and control access to the three judges. Each office shall accommodate a workstation and two visitor's chairs. The court reporter's offices shall include two separate entrances, one from the corridor and one directly into the Judge's chambers. A small kitchenette shall be included with a sink, under-counter refrigerator, and microwave with direct access to the court reporters' offices. Provide a silent duress alarm button within immediate reach when seated and mounted on or under the desk.
- 7) **Defense Counsel Offices:** Provide two private defense counsel offices on the opposite side of the courtroom from prosecution offices to minimize interaction outside the courtroom. Each office shall accommodate one workstation and two guest chairs.
- 8) **Prosecution Counsel Offices:** Provide two prosecution counsel offices on the opposite side of the courtroom from defense offices to minimize interaction outside the courtroom. The two offices shall accommodate five workstations.
- 9) **Printer & Copy Station:** Provide a separate printer and copy station with base and wall cabinets for the defense counsel area and the prosecution counsel area. Coordinate equipment size with the Installation.
- 10) **Defense and Prosecution Witness Rooms:** Provide two separate rooms for witnesses to wait, one for defense and one for prosecution on the respective sides of the courtroom, physically separated. Witness rooms shall be near the courtroom. If possible, provide a separate door to the courtroom near the witness box. The witness rooms shall be fully carpeted with no interior or exterior windows. Seating shall be fixed to the floor.
- 11) **Remote Witness Room:** A dedicated remote witness room is required, maximum 200 feet from the courtroom, to allow sequestered, vulnerable, or volatile witnesses to remotely testify or present evidence. Space shall accommodate a witness seat of sufficient distance from a camera, with a desk and a chair for legal counsel. Locate the room on the defense counsel's side of the courtroom. Seating shall be fixed to the floor. Features shall include Sound gaskets for all doors, at frames and thresholds to maintain STC rating, No interior or exterior windows. A CCTV system camera, permanently mounted on the wall. A dedicated monitor connected to the evidence presentation system via a wall jack.
- 12) **Paralegal Work Room:** Provide a paralegal office to accommodate two workstations and three guest chairs. Locate the room on the prosecution side of the courtroom.
- 13) **Holding/Lawyer-Client Room:** Provide a room for conferring and defendant holding with door and access separated from the public spaces. The room shall be secure room with no windows and appropriate locking devices having access to the exterior covered drop-off area.
- 14) **File Storage:** Provide a consolidated file storage room.
- 15) **General Storage:** Provide a consolidated general storage room that may accommodate evidence storage.

C. **FACILITY SUPPORT AREAS:** The following are considered facility support spaces, required, but changeable with approval:

- 1) **Vestibules:** Provide an enclosed transition space between the exterior and lobby for the main entry and for secondary entries to corridors. Include a clearance between doors to accommodate a 10'-0" long walk-off carpet which is easily cleaned on a weekly basis.
- 2) **Lobby:** The lobby shall serve as the main entrance and public gathering point, sized to accommodate visitors for trials. Locate the lobby on the secure side of the security screening station while providing visual control and direct access to the courtroom, security screening area, public restrooms, break room, magistrate work area, multi-purpose room, and counsel office areas. Provide space for a small seating group. Incorporate features which permit screening of spectators visually and /or with metal detectors which may include the use of magnetometers and x-ray machines. Doorways and adjacent space shall be capable of accommodating these devices when needed, providing a clear flow of courtroom participants into the secured area.

- 3) **Corridors:** Provide public and private area corridors.
- 4) **Janitor's Closet:** Provide one janitor's closet with floor mop sink on each floor with 4'-0" high stainless steel, tile, or solid polymer backsplash, service faucet with hose and bracket, mop rack for three mops, minimum 6'-0" of linear stainless steel shelving capable of supporting minimum 30 lb. per linear feet, and floor drain.
- 5) **Audio/Video Room:** A dedicated audio/video room is required directly adjacent to the courtroom and accessible from the outside of the courtroom to avoid disrupting courtroom proceedings. The estimated power load is 1,482 KVA and estimated heating load is 5264 SBTU/hr. The Audio/Video room shall have an independent temperature control or thermostatically controlled exhaust fan. Provide cooling for current equipment array and allow for expansion of cooling required to double the designed load/capacity.
- 6) **Mechanical, Electrical, and Telecommunications Rooms:** A dedicated telecommunications room shall be provided for the voice and data network. Provide a minimum of one room on each floor (where applicable), designed in accordance with the I3A Guide and ANSI/EIA/TIA-569-B.
- 7) **Break Room:** Provide a public break room to accommodate vending machines and recycle bins. Include casework with a sink.
- 8) **Lactation Room:** Separate space for nursing mothers, not in a restroom, free from intrusion by others. Include space for comfortable seating with an adjacent flat surface or table and electric outlet. Provide a sink with hot and cold water and a full length mirror.
- 9) **Public Restrooms:** Include vanity light fixtures above glass mirror for length of the vanity. Provide floor drains.
 - a) **Men's Toilet:** Provide a solid polymer countertop with two integrally molded lavatories and 6" high coved back and side splash. Provide minimum of one wall hung accessible urinal and one accessible toilet. Provide solid polymer toilet partitions and urinal screen, baby changing table, toilet tissue dispenser, soap dispensers, paper towel dispensers, and waste receptacles, unless otherwise determined by the Installation.
 - b) **Ladies' Toilet:** Provide a solid polymer countertop with two integrally molded lavatories and 6" high coved back and side splash. Provide minimum of one accessible toilet and one standard toilet. Provide solid polymer toilet partitions, baby changing table, toilet tissue dispensers, napkin disposals, soap dispensers, paper towel dispensers, and waste receptacles, unless otherwise determined by the Installation.
 - 10) **Unisex Toilets:** Provide handicap accessible unisex toilets, each with solid polymer countertop and skirt vanity with one integrally molded lavatory and 6" high coved back and side splash, a glass mirror, a wall mounted light fixture above mirror, one wall mounted toilet, and one floor drain per toilet room. Include toilet tissue dispenser, paper towel dispenser, soap dispenser, and waste receptacle in each toilet room, unless otherwise determined by the Installation. The following areas require a unisex toilet:
 - a) **Judges' Suite Area:** In addition to the above, include an accessible fiberglass shower unit with shower rod, curtain, soap holder, and towel hooks.
 - b) **Defense Counsel Area:** In addition to the above, include an accessible fiberglass shower unit with shower rod, curtain, soap holder, and towel hooks.
 - c) **Prosecution Counsel Area:** In addition to the above, include an accessible fiberglass shower unit with shower rod, curtain, soap holder, and towel hooks.
 - d) **Deliberation Suite Area.**

3.3. SITE FUNCTIONAL REQUIREMENTS

- A. **PARKING:** Visually and spatially separate the public parking from the Judges', Command, and panel member parking area.
 - 1) **Public Parking:** The public parking area shall accommodate 100% of the courtroom's spectator seating near the main entrance.
 - 2) **Judges', Command and Panel Member Parking:** Provide a separate and secure parking lot for the assigned Judicial Center personnel including 15-20 parking spaces in close proximity to the private (back) entrance for the Judge, panel members, and Command (law enforcement) personnel.

B. ACCESS DRIVES AND DROP OFF:

- 1) **Services Drives:** Provide an access drive which can be shared, having controlled access for building maintenance and access to the mechanical yard. Service drives shall be minimum 10 feet wide.
- 2) **Defendant Drop-off:** Provide an access drive up to the building, controlled to drop-off held defendants with a gate and/or within a fenced area as determined by the Installation.

3.4. SITE AND LANDSCAPE REQUIREMENTS

A. SITE STRUCTURES:

- 1) **Dumpster Enclosures:** Provide screened or enclosed dumpster area, architecturally compatible with the building served and as required by the Installation. Enclosure shall be sized to the required number of dumpsters and recycle containers. Locate dumpsters in accordance with ATFP requirements.
- 2) **Service Yards:** Provide a mechanical equipment enclosure, sized to allow clearance for maintenance as required by the equipment manufacturer. Provide enclosures in accordance with ATFP requirements. Where top protection is required per ATFP requirements, assure adequate height is provided for maintenance without removal of top protection. Design top screening for removal in easily handled sections.
- 3) **Utility Pads:** Provide concrete exterior utility pads for any mechanical or utility device needed for the building operation. Include all necessary piping, wiring, or utility extensions for the device to function as designed. Locate mechanical equipment near existing or proposed sidewalks, access drives, or parking areas to eliminate the need to construct additional accesses.

B. LANDSCAPING\HARDSCAPING:

- 1) **Pedestrian Sidewalks:** Provide minimum 6-foot wide sidewalks connecting each building entrance with parking areas and as needed for fire exiting and site circulation.
- 2) **Landscaping:** Landscaping and plant selection shall be provided as required by the Installation, enhancing the visual quality of the facility in all seasons. All other areas shall be seeded in lawn grasses acceptable to the climate and Installation. Landscape with materials indigenous to the area, eliminating requirements for irrigation and minimizing maintenance. Reference Installation planting lists.

C. **SITE LIGHTING:** Provide exterior site lighting for all access drives, parking lots, and walkways. Coordinate the control of site lighting with the installation. Use of lights mounted on the building to supplement site lighting is acceptable.

3.5. ARCHITECTURAL REQUIREMENTS

A. **GENERAL:** Provide durable and easily maintainable materials. Avoid exterior materials that require periodic repainting or refinishing processes. Material exposed to weather shall be factory finished, integrally colored, or provided with intrinsic weathering finish.

B. EXTERIOR OPENINGS:

- 1) **Doors and Frames:** All exterior doors shall be minimum 3'-0" wide, including those used in double door openings.
 - a) **Storefronts (Main Entrances):** Provide aluminum storefront walls for main vestibule entrance and security screening area for visual monitoring, matching color and finish of the exterior storefronts. Provide Architectural Class 1 anodized finish, fully glazed with insulating glass units, having medium or wide stiles for entry into lobbies or corridors. Framing systems shall have thermal-break design. Exterior storefront systems shall comply with wind load requirements of applicable codes and criteria including UFC 4-010-01.
 - b) **Insulated Hollow Metal Doors & Frames:** Provide insulated hollow metal exterior doors for entry to all spaces other than corridors or lobbies. Doors shall be minimum Level 3, physical performance Level A, Model 2 flush, seamless. Frames shall be Level 4, 12-gauge, with continuously welded mitered corners and seamless face joints. Doors and frames shall be A60 galvanized, in compliance with ASTM A653 and shall be factory primed for field paint.

c) **Hardware:** All door hardware shall be Grade 1 for heavy duty use. Keying shall be coordinated with the Installation. Cores shall have not less than seven pins; cylinders shall have key-removable type cores. When the Installation requires electronic access, all main entry doors shall be included.

2) **Windows:** Provide insulated glass units in high efficiency window systems with thermally broken frames complying with applicable codes and criteria including UFC4-010-01. Window sills shall be designed for drainage and discouraging bird nesting. Windows shall be inoperable.

C. INTERIOR OPENINGS:

1) **Doors and Frames:** All interior doors shall be minimum 3'-0" wide, including those used in double door openings.

a) **Wood Doors:** All interior doors shall be solid core wood unless otherwise indicated. Provide flush solid core wood doors conforming to WDMA I.S.-1A. Stile edges shall be non-finger jointed hardwood compatible with face veneer. Provide Architectural Woodwork Institute (AWI) Grade A hardwood face veneer for transparent finished doors.

b) **Insulated Hollow Metal Doors:** When indicated for use, hollow metal doors for interior use shall be factory primed and comply with ANSI A250.8/SDI 100. Doors shall be minimum Level 2, physical performance Level B, Model 2, flush, seamless.

c) **Hollow Metal Frames:** All interior door frames shall be hollow metal unless otherwise indicated. Interior hollow metal frames shall be factory primed and comply with ANSI A250.8/SDI 100. Frames shall be minimum Level 2, 16 gauge, with continuously welded mitered corners and seamless face joints.

2) Interior Windows:

a) **Roll-Up Magistrate Window:** Provide metal or wood rolling counter door at window for magistrate with solid curtain and integral frame. Include power operation.

D. ACOUSTICAL REQUIREMENTS:

1) **Sound Transmission Reduction:** Provide minimum wall, ceiling, and door STC assemblies' ratings between spaces with additional requirements as indicated in Attachment A, Space Requirements. Penetrations for outlet boxes, wiring, light fixtures, etc. shall be fully sealed with either a gasket or with acoustic caulk. Perimeters of walls shall be sealed to eliminate sound travel around walls. A continuous gasket shall be provided around the door jamb in conjunction with a sealable threshold in confidential rooms having STC 52 requirement. Noise and sound reduction material shall be used in all supply and return ductwork in the Courtroom, Deliberation Room, and Judge's Chambers. Courtroom shall include interior finishes with sound absorbing qualities to minimize sound reverberation time.

2) **Room Noise Criteria and Testing:** Building construction and installed equipment shall accommodate room noise criteria limits.

a) **Room Criteria (RC):** Occupancy classification establishes acceptable background sound in rooms over the frequency range of 16 Hz to 4000 Hz, particularly measuring rumbling, rattling, buzzing, hissing, and humming from building mechanical and electrical systems. Rooms shall not exceed the RC indicated below. All RC ratings shall be neutral (N). Designers of Record shall determine adequate construction requirements to achieve the following RC limits:

- | | | |
|-----|------------------|-----------|
| (1) | Private Offices: | RC 30 (N) |
| (2) | Judges Chambers: | RC 30 (N) |
| (3) | Witness Rooms: | RC 30 (N) |
| (4) | Courtroom: | RC 25 (N) |

b) **RC Testing:** Test all rooms with all building systems operating, including air compressors. Measure the sound pressure level in dB referenced to 20 micro Pascals. Report the results of the tests by plotting the sound pressure level in each octave band from 32-4000 Hertz on Room Criterion Curve sheets published by ASHRAE. Provide an individual plot for each room and a narrative discussion explaining the test results. Rooms exceeding the above RC shall have either systems or sound attenuation altered until the RC rating is met.

E. CONTROLLED ACCESS:

- 1) **Public Spaces:** Public spaces and associated circulation paths shall be separated from the rest of the building by doors and access controllable hardware.
- 2) **Counsel Offices:** Counsel Offices and associated circulation paths shall be separated from public spaces and Judges' Suite by doors and access controllable hardware.
- 3) **Judges' Chambers:** Judges' chambers area and associated circulation paths shall be separated from public spaces and counsel offices by doors and access controllable hardware.
- 4) **Deliberation Room:** Provide direct access or a dedicated circulation path to the Deliberation room for the panel members. If corridors are used, the path shall avoid contact with judge, counsel, and general public.

3.5.1. FINISHES AND INTERIOR SPECIALITIES

A. **GENERAL:** Minimum interior finishes shall be as indicated in the finish schedule on the drawings. Colors, materials, and textures shall be considered to convey the suitable dignity and importance of the Courtroom environment.

B. **INTERIOR FINISHES:**

1) **Minimum Finish Requirements:**

- a) **Walls:** All gypsum board shall achieve a score of 10, the highest level of performance for mold resistance under the ASTM D 3273 test method. Gypsum board wall finish shall be minimum level 5 finish in accordance with GA 214.
- b) **Counter Tops:** Provide solid polymer countertops/vanities and integral backsplashes. Include 4-inch solid polymer skirts for vanities and waterfall edges for countertops.
- c) **Window Stools:** Provide solid polymer window sills.

C. **INTERIOR SPECIALTIES:**

- 1) **Signage & Directories:** Provide a comprehensive signage package including changeable directories, way-finding signage, and room signage with room numbers and changeable room names.
- 2) **Restroom and Shower Accessories:** Provide commercial grade, heavy duty toilet accessories with metal finish. (Type 304 stainless steel when available.) Coordinate accessories with Installation as needed for maintenance contracts.
- 3) **Wall Protection:**
 - a) **Chair Rail:** Provide chair rails in areas prone to chair height impacts including conference rooms, waiting areas, and offices.
 - b) **Corner Guards:** Provide surface mounted, high impact resistant, integral color, snap-on type resilient corner guards, extending from floor to ceiling for wall and column outside corners in high traffic areas such as corridors, waiting areas, and lobbies. Factory fabricated end closure caps shall be furnished for top and bottom of corner guards.

3.6. STRUCTURAL REQUIREMENTS

System design and construction shall meet all applicable criteria identified herein and in Section 01 10 00, paragraphs 4.0 and 5.0.

3.7. SEE PARAGRAPH 6.7 THERMAL PERFORMANCE – NOT USED

3.8. PLUMBING REQUIREMENTS

A. **GENERAL:** System design and construction shall meet all applicable criteria identified herein and in Section 01 10 00, paragraphs 4, 5, and 6, using the most stringent in case of conflict.

B. **WATER SERVICE:** The domestic water service to the building shall enter the building in the mechanical room. The water service shall be provided with a reduced pressure backflow preventer to isolate the building from the base water system. A main shut-off valve shall be provided inside the building.

C. **WATER DISTRIBUTION:** A horizontal water distribution system shall serve the building, with isolation valves at each branch to common areas serving two or more fixtures, and at each wall hydrant or equipment connection. Water connections for mechanical equipment systems make-up will be isolated from the domestic water system with a reduced pressure backflow preventer.

D. **SANITARY:** A sanitary drain, waste and vent system will extend from the connection to the site utility system to all fixtures and equipment requiring service. Drainage and vent stacks shall extend vertically and be vented through the roof. The system shall be provided with traps, vents, and cleanouts as required by industry standards. Trap primers shall be provided for drains susceptible to loss of water seal by evaporation.

E. **FLOOR DRAINS:** Floor drains shall be provided in mechanical rooms, janitor rooms, restrooms, break rooms, lactation room, and for equipment requiring drainage. All floor drains shall be automatically primed by single trap primers, or where appropriate, distribution-type trap primers. Drainage piping for mechanical room floor drains, to the point of connection to sanitary main, shall utilize metallic piping.

F. **WALL HYDRANTS:** Wall hydrants shall be provided at a maximum spacing interval of 150-feet around the perimeter of the building. Wall hydrants shall be box type, freeze-proof, with integral vacuum breaker/backflow preventer.

G. **WATER HAMMER ARRESTERS:** Water hammer arresters will be provided for shock suppression. The placement of water hammer arresters shall be in accordance with industry standards.

3.9. COMMUNICATIONS AND SECURITY SYSTEMS

A. **GENERAL:** Provide the following electronic elements to record the courtroom activity and to aid in the presentation of evidence.

B. **TELECOMMUNICATION SYSTEMS:**

1) **Voice/Data Outlets:** Voice/data outlets shall be two 8-pin modular (RJ45 Type) outlet/connectors in a double gang outlet faceplate, one connector labeled voice use and one labeled data use. Copper outlet/connector shall be TIA/EIA Category 6 for all projects. All connectors shall be 8-pin/8-position insulation displacement terminators wired per T568A (default configuration). One Cat 6 UTP cable shall be installed to each standard 8-pin modular connector provisioned at the faceplate. Copper distribution cable shall be terminated at the TR on Cat 6 cabinet or rack mounted patch panels with 110-type compliant connectors on the back and 8-pin modular connectors on the front.

2) **Outside Plan Telecommunications Systems:** The Judicial Center shall connect to the Installation telecommunications (voice and data) system through the outside plant (OSP) underground infrastructure per I3A guidance. Connections to the OSP cabling system shall be from each facility main cross connect located in the main telecommunications room or telecommunications equipment room to the closet OSP access point. Components include the physical cable plant and the supporting structures. Items included under OSP infrastructure are, maintenance hole and duct infrastructure, copper cable, fiber optic cable, cross connects, terminators, splices, cable vaults, and copper for entrance facilities.

3) **Telecommunications Room:** Telecommunications rooms and telecommunications entrance facilities shall be provided for unclassified network and voice equipment and cabling infrastructure throughout the facilities. Provide a minimum of one telecommunications room, located near the center of the building. For multistory facilities, provide one room on each floor, stacked between floors. The telecommunications rooms shall be designed and provisioned in accordance with the I3A guide and ANSI/EIA/TIA-569-B. One telecommunications entrance capability shall be provided for each facility. The telecommunications entrance may be collocated with the main TR for the facility.

4) **CATV:** Provide a completely operational CATV cabling system including all necessary raceways, cabling, terminations, jacks, and faceplates. The horizontal cable to the CATV system shall be RG-6 with "F" type connectors on the terminal end. The CATV cabling shall be terminated on splitters in the telecommunications

room, or in a location indicated by the DOIM. CATV riser cable shall be RG-11 type. Splitters shall be located on the CATV backboard. At a minimum, CATV outlets shall be provided in the judge's chamber and in the conference area. Requirements for other outlets shall be coordinated with the local CATV service provider. At a minimum, provide one 4" empty conduit stubbed out of the building to facilitate the CATV service entrance.

5) **Utility Rooms:** Each utility room, such as mechanical, electrical, and telecommunications rooms shall be provided with at least one wall mounted telecommunications outlet having a wall mounting lug face plate near the room entrance door.

C. **AUDIO/VISUAL SYSTEMS AND INFRASTRUCTURE:**

1) **Recording System:** The audio/video recording system shall record courtroom activity. The system shall have components that fit in a standard 19" rack, a digital recorder with storage capacity for a minimum of 320 GB of storage, a minimum of 5 (bench, witness, presentation cart, prosecution table, defense table) video and 7 (bench, witness, presentation cart, prosecution table, defense table, court reporter, jury box) audio inputs, and the capability to capture audio/video (DVD, and still photo) from the presentation station. Also include automatic switched video output to the person currently speaking, continuous monitoring and adjusting microphone levels, and mixer cards, video interface cards, video switcher cards, time-date generator card, remote control card, audio distribution card, and power supply cards as required for the application. Provide all software necessary to control, capture, view, manipulate, store, and otherwise use the courtroom data. The software provided shall be designed for use in a courtroom setting.

2) **Evidence Presentation:** Provide a portable evidence presentation station. The station shall have components to play VHS, DVD, and CD media, to amplify and broadcast audio via speakers, display evidentiary documents, pictures, objects, etc. via an overhead video camera, present evidence (whether video or document) via a touch screen monitor which will permit the user to highlight, pan, and zoom, and control the presentation via a remote controller. The station shall have an input for a PC so that software documents may be presented. The station shall interface with the courtroom audio/video recording system so that the documents can be recorded for the court record. The station shall have a power supply which shall filter the power to the various electronic components.

3) **Video Projection System:** A video projection system shall be provided (receiving its input from the portable evidence presentation station) to display evidence to the participants and the gallery. A large screen television shall be provided in the courtroom.

4) **PA Systems:** A public address (PA) system shall be provided in the courtroom to receive audio input from the recording system. The system shall have a "white noise" generator to be employed during bench conferences, etc. to mask these proceedings from the witnesses, court members, the gallery, etc.

5) **Video Monitors:** Flat screen video monitors shall be provided at the following locations: (A) the court members (14 members), (B) prosecution and defense tables, (C) court reporter, (D) judge, (E) witness, and (F) the court technologist (if applicable).

6) **Closed Circuit Television (CCTV):** A digital closed circuit television (CCTV) system shall be provided. The system shall assess the building entrances, the security checkpoint, and the defendant and witness holding areas. The system shall interface with the courtroom control center and audio/video recording system in order to permit testimony from the remote witness rooms when required. The system shall consist of color cameras on pan/tilt/zoom mounts controller/switcher, monitor(s), and peripheral equipment as required. The recording function shall be via the courtroom recording system. The system shall be monitored/controlled from the courtroom and/or the security checkpoint as required by the User.

7) **Video Teleconferencing (VTC):** A video teleconferencing (VTC) system shall be provided and installed in the courtroom which shall interface with the courtroom audio/video recording system and the local area network (LAN).

8) **Interactive Whiteboard:** An interactive whiteboard shall be provided in the courtroom. The whiteboard shall be the rear projection type. The software/driver(s) required for operation shall be installed on a personal computer dedicated for courtroom systems use and connected to both audio/video recording system and the local area network (LAN).

3.10. ELECTRICAL REQUIREMENTS

A. **GENERAL:** System design and construction shall meet all applicable criteria identified herein and in Section 01 10 00, paragraphs 4, 5, and 6, using the most stringent in case of conflict.

B. **INTERIOR ELECTRICAL SYSTEM:**

1) **Transient Voltage Surge Suppression (TVSS):** Transient voltage surge suppression (TVSS) shall be provided for all buildings. TVSS devices shall parallel the operating devices in providing a path to ground for an electrical surge and thereby limiting the magnitude of the transient voltage surges on the system. TVSS devices shall be mounted adjacent to or integral with the main distribution panel in accordance with the manufacturer's recommendation. TVSS devices shall be hard wired into the electrical distribution system utilizing a circuit breaker connection. TVSS units shall be tested in accordance with IEEE C62.45 using IEEE C62.41 Category B waveform. Units shall be UL 1449 listed and labeled. The modes of protection shall be the normal mode (L-N, L-L) and common mode (L-G, N-G). TVSS units shall include self-diagnostic and self-testing capabilities, a resettable transient event counter, and a local audible alarm with mute capability.

2) **Receptacles:** Receptacles shall be provided adjacent to all CATV and data jack locations.

3) **Spare Capacity:** All switchboards, panelboard, load centers, and feeders shall be designed with 20% spare capacity for future additions and changes.

C. **LIGHTING LEVELS, FIXTURES AND CONTROL:**

1) **Down Lighting:** LED down lights shall be used in areas where special attention is needed for aesthetics.

2) **Security Lighting:** Provide security lighting at entrances to judges' chambers, covered porches, covered drop off, and utility rooms (i.e. mechanical, electrical, communications, etc.). Wall mounted security lighting fixtures shall be shrouded to minimize glare.

3) **Sensors:** Occupancy sensors (auto on with movement and auto off with no movement) shall be utilized for lighting control in the restrooms and all vertical/horizontal circulation spaces. All other spaces shall be provided with vacancy sensors (manual on or manual off and auto off with no movement).

3.11. **HEATING VENTILATING AND AIR CONDITIONING (HVAC) REQUIREMENTS**

A. **GENERAL:** System design and construction shall meet all applicable criteria identified herein and in Section 01 10 00, paragraphs 4, 5, and 6, using the most stringent in case of conflict.

B. **HVAC DESIGN CRITERIA:**

1) **Outdoor Design Temperature, Cooling:** The outdoor design temperature for comfort cooling shall be the 1% dry bulb and the corresponding wet bulb temperature for the locale or the 1% dehumidification dewpoint temperature and the corresponding dry bulb temperature, whichever produces the greater cooling load.

2) **Outdoor Design Temperature, Heating:** The outdoor design temperature for heating shall be the 99% dry bulb temperature for the locale.

3) **Indoor Design Temperature, Cooling:** The indoor design temperature for comfort cooling shall be 15 degrees F less than the 1% outdoor air temperature, but will be no lower than 75 degrees F, nor any greater than 78 degrees F.

4) **Indoor Design Temperature, Heating:** The indoor design temperature for comfort heating shall be 68 degrees F. Winter humidification shall be required where the indoor relative humidity is expected to fall below 20%.

5) **Indoor Design, Humidity:** The indoor design relative humidity shall be 50%.

C. **Courtroom Controls:** Temperature control in the courtroom shall have independent control of heating and cooling from adjacent spaces. The space occupants shall be given override setpoint control of BAS to achieve desired temperature in the courtroom. Control for HVAC in the space shall be placed near the Court Reporter's Box. Air return using ceiling plenum within the courtroom or courtroom support spaces is strictly prohibited. Ducted supply and return air is required.

3.12. **SEE PARAGRAPH 6.12 ENERGY CONSERVATION REQUIREMENTS – NOT USED**

3.13. FIRE PROTECTION REQUIREMENTS

A. **GENERAL:** System design and construction shall meet all applicable criteria identified herein and in Section 01 10 00, paragraphs 4, 5, and 6, using the most stringent in case of conflict. The Judicial Center requires full protection throughout by an automatic sprinkler system in accordance with NFPA and UFC documents. The Judicial Center's suggested occupancy classification and use is for mixed, IBC Group A-3 (Assembly) and Group B (Business), and NFPA 101 New Assembly and Business.

B. **FIRE PUMP:** A fire pump or fire booster pump shall be provided if required, based on the available flow and pressure. (Prior to award, contractors shall use the flow test data provided. After award, designer of record shall be responsible for performing a hydrant flow test.) Data from this test shall be used as the basis for design as indicated above for automatic sprinkler protection. When a fire pump is required, an additional room shall be created, preferably within or near the mechanical room, changing the building floor plan without adding to the total floor area. These changes shall be made during design and will require COS approval.

C. **FIRE DETECTION AND ALARM SYSTEMS:** A fire alarm detection system shall be provided for the building in accordance with the requirements of industry standards and the Installation. The fire alarm system will be addressable, consisting of a control panel, manual pull stations, horns and strobe lights, sprinkler water flow switches, valve temper switches, air pressure supervisory switches, control and monitor modules for non-addressable devices and heat detectors.

3.14. SEE PARAGRAPHS 5.12 AND 6.14 SUSTAINABLE DESIGN – NOT USED

3.15. SEE PARAGRAPH 6.15 ENVIRONMENTAL – NOT USED

3.16. SEE PARAGRAPH 6.16 PERMITS – NOT USED

3.17. SEE PARAGRAPH 6.17 DEMOLITION – NOT USED`

3.18. SEE PARAGRAPH 6.18 ADDITIONAL FACILITIES – NOT USED

3.19. EQUIPMENT AND FURNITURE REQUIREMENTS

3.19.1. FURNISHINGS

Reference the furniture plans on the drawings and the specific requirements in this section.

A. **FURNITURE LIST & CHARTS**

1) **Furniture List:**

a) **Counsel Tables:** The tables will be no less than 72 inches long and 36 inches deep with one drawer mounted on the underside of the writing surface. Provide floor mounted utility boxes for power and audio/video connections at the two tables.

b) **Lectern:** The lectern will be maximum 40 inches tall and 30 inches wide with an angled top to sufficiently hold papers, books, etc. but not to the degree that a laptop computer cannot easily remain in place.

3.19.2. EQUIPMENT

Reference drawings and the specific requirements in this section.

A. **AUDIO/VISUAL EQUIPMENT:**

1) **Large Screen Televisions:** Provide power where televisions will be installed. Televisions are GFGL by the Installation, not included in the FF&E Package.

2) **PA Systems:** Provide power and conduit with pull wire where public address (PA) systems will be installed. PA systems are GFGL by the Installation, not included in the FF&E Package.

3) **Video Teleconferencing (VTC):** Coordinate specific wiring infrastructure requirements with the Installation where VTC is required.

3.20. FACILITY SPECIFIC REFERENCES: (NOT USED)

ATTACHMENT A

STANDARD DESIGN DRAWING INDEX:

JUDICIAL CENTER

G001	COVER SHEET
C100	JUDICIAL CENTER SITE PLAN
A101	JUDICIAL CENTER FLOOR PLAN
A102	JUDICIAL CENTER SPACE REQUIREMENTS
A102	JUDICIAL CENTER SPACE REQUIREMENTS
A201	JUDICIAL CENTER ELEVATIONS
A202	JUDICIAL CENTER ELEVATIONS
I101	JUDICIAL CENTER FURNITURE PLAN

A

B

C

D

E

F

G



A — **B**



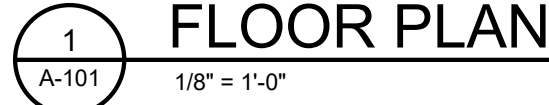
US ARMY CORPS OF ENGINEERS MOBILE DISTRICT HQ, PLACE 600 DR. MARTIN LUTHER KING, JR. LOUISVILLE, KY 40202	DESIGNED BY:	ISSUE DATE:
	DRAWN BY: LAURA GRANT	SOLICITATION NO.:
	CHECKED BY: DEBBIE BOWEN-WEIDER	CONTRACT NO.:
JUDICIAL CENTER(CJ) STANDARD DESIGN	SUBMITTED BY:	
	DATE ANSI D	

DEPARTMENT OF THE ARMY FACILITY
STANDARDIZATION PROGRAM

Cover Sheet

SHEET ID

G-100



FUNCTIONAL SPACE AREA RQMT:
INDICATES MINIMUM REQ'D FLOOR AREAS FOR THE STANDARD (STD) DESIGN AND THE MAXIMUM ALLOWED AREAS FROM THE ARMY STANDARD (AS).

FUNCTIONAL SPACE AREA REQUIREMENTS			
ROOM NUMBER	ROOM NAME	MINIMUM RQMT BY STD DESIGN	MAXIMUM RQMT BY AS
100	VEST "A"	83 SF	--
101	SCREENING	150 SF	150 SF
102	LOBBY	1048 SF	--
103	COURTROOM	2555 SF	2,800 SF
104	MAGISTRATE	200 SF	200 SF
105	MULTI-PURPOSE	140 SF	140 SF
106	COUNSEL OFFICE	145 SF	150 SF
107	PROSECUTION WITNESS	130 SF	150 SF
108	COUNSEL OFFICE	215 SF	220 SF
109	PARALEGAL	162 SF	190 SF
110	FILE STORAGE	100 SF	108 SF
111	STAFF TLT	65 SF	--
112	CORRIDOR	289 SF	--
113	PRINTER & COPY "A"	54 SF	96 SF
114	DELIBERATION	465 SF	500 SF
115	KICHENETTE & VENDING	44 SF	--
116	UNISEX TLT	51 SF	--
117	CORRIDOR	280 SF	--
118	VEST "B"	50 SF	--
119	COURT REPORTER	160 SF	160 SF
120	JUDGE CHAMBERS	293 SF	300 SF
121	KITCHEN & PRINTER	93 SF	--
122	COURT REPORTER	160 SF	160 SF
123	JUDGE CHAMBERS	297 SF	300 SF
124	JUDGE CHAMBERS	296 SF	300 SF
125	JANITOR	75 SF	--
126	CORRIDOR	212 SF	--
127	GENERAL STORAGE	90 SF	96 SF
128	UNISEX TOILET	94 SF	--
129	COM	105 SF	120 SF
130	A/V ROOM	88 SF	120 SF
131	CORRIDOR	533 SF	--
133	VEST "C"	50 SF	--
134	MECHANICAL	659 SF	--
135	UNISEX TLT	84 SF	--
136	ELECTRICAL	148 SF	150 SF
137	HOLDING/LAWYER CLIENT	120 SF	150 SF
138	COUNSEL OFFICE	130 SF	150 SF
139	COUNSEL OFFICE	125 SF	150 SF
140	REMOTE DEF WITNESS	125 SF	150 SF
141	DEF WITNESS	132 SF	140 SF
142	BREAK RM	115 SF	200 SF
142-A	LACTATION	53 SF	--
143	MEN TOILET	154 SF	--
144	LADIES TOILET	154 SF	--
145	PRINTER & COPIER "B"	28 SF	96 SF

COVERED ROOF AREA PROVIDED			
ROOF AREA	COVERED AREA CALCULATED AS HALF SCOPE	ACTUAL STD DESIGN AREA	AT HALF SCOPE
A	COVERED PORCH	717 SF	359 SF
B	COVERED PORCH	30 SF	15 SF
C	COVERED PORCH	30 SF	15 SF
D	COVERED DROP OFF	683 SF	342 SF
	SUBTOTAL	1460 SF	730 SF

SUMMARY OF SQ FT REQUIREMENTS		
SUMMARY OF SQ FT REQUIREMENTS	SUBTOTAL IN STANDARD DESIGN	MAXIMUM RQMT BY AS
SUBTOTAL NET AREA OF REQUIRED SPACES	6546 SF	7306 SF
SUPPORT SPACE NET AREA	4113 SF	--
STRUCTURE	1594 SF	--
HALF SCOPE COVERED AREA	730 SF	--
TOTAL GROSS SQ FT	12983 SF	13500 SF

KEY LEGEND:

1	ACCESS CONTROL HARDWARE REQUIRED.
2	ARMY STD REQUIRES 16-20 FT HIGH CLEAR CEILING WITH NO COLUMNS AND A RAISED ACCESS FLOOR IN COURT ROOM.
3	THE COURTROOM "WELL" SPACE IS THE OPEN AREA BETWEEN THE JUDGES BENCH AND COUNSEL TABLES.

[illegible]

DESIGNED BY: US ARMY CORPS OF ENGINEERS LOUISVILLE DISTRICT 600 DR. MARTIN LUTHER KING JR. PLACE LOUISVILLE, KY 40202	ISSUE DATE: 29 MAY 2019	
	SOLICITATION NO.:	
JUDICIAL CENTER (JC) STUDY AND DESIGN (VERSION 2)	CONTRACT NO.:	
	SUBMITTED BY: JENNIFER SCHENKELFELDER	
	DRAWN BY: LAURA GRANT	
	CHECKED BY:	
	SIZE: ANSI D	

DEPARTMENT OF THE ARMY FACILITY
STANDARDIZATION PROGRAM

FLOOR PLAN

SHEET ID

A-101

STANDARD DESIGN

	1	2	3	4	5	6	7	8	9	10		
G	JUDICIAL CENTER SPACE REQUIREMENTS											
	REQUIREMENTS FOR SUPPORT SPACES											
	ROOM NO.	ROOM	FUNCTION / DESCRIPTION	SPECIAL LIGHTING RQMTS	SPECIAL TECHNOLOGY / POWER RQMTS	MINIMUM STC	FINISHES				MINIMUM HEIGHT	MISC REQUIREMENTS
							FLOOR	BASE	WALL	CLG		
	100, 118, 133	VESTIBULES	PROVIDE VESTIBULES AT CORRIDOR BUILDING ENTRANCES.	PROVIDE RECESSED LIGHTING.		N/A	PVR / WOM	PVR	GWB	GWB	8' - 8"	PROVIDE EXTERIOR LOCKING DEVICES PER INSTALLATION / CUSTOMER RQMTS FOR PUBLIC, PRIVATE, AND AFTER HOUR SECURE ENTRY.
	111, 116, 128, 135	UNISEX TOILETS	PROVIDE HC UNISEX TOILETS FOR: – JUDGE'S SUITE – DEFENSE AREA – PROSECUTION AREA – DELIBERATION SUITE			35	CT	CT	GWB/ GT	GWB	9' - 0"	PROVIDE ONE HC SHOWER STALL IN EACH TOILET ROOM.
	112, 126, 131	CORRIDORS	SEPARATE PUBLIC AND PRIVATE CIRCULATION.			35	VCT	RB	GWB	ACT	9' - 0"	PROVIDE ELECTRIC WATER COOLERS WITH BOTTLE FILLERS IN THE PUBLIC AREA, PROSECUTION COUNSEL AREA AND THE DEFENSE COUNSEL AREA.
	115, 121	KITCHENETTE AREAS	PROVIDE A SMALL KITCHENETTE TO ACCOMMODATE BASE AND WALL CABINETS FOR THE JUDGE'S SUITE AND DELIBERATION SUITE	PROVIDE TASK LIGHTS OVER COUNTERTOPS.		N/A	PVR	PVR	GWB	GWB	9' - 0"	PROVIDE A SINK AND SPACE FOR AN UNDER COUNTER REFRIGERATOR AND MICROWAVE.
	125	JANITOR CLOSET	PROVIDE ROOM FOR GENERAL FACILITY CLEANING / SUPPLIES.			N/A	CONC	RB	GWB	GWB	8' - 0"	INCLUDE MOP SINK AND SHELVING.
	129	COMMUNICATIONS ROOM	PROVIDE A COMMUNICATIONS ROOM FOR THE VOICE AND DATA NETWORK.		DESIGN IAW THE I3A GUIDE AND ANSI/EIA/TIA-569-B.	35	VCT	--	GWB	GWB	9' - 0"	
E	130	AUDIO / VISUAL (A/V) ROOM	PROVIDE AN AUDIO / VIDEO ROOM ADJACENT TO THE COURTROOM, ACCESSED OUTSIDE OF THE COURTROOM TO NOT DISTURB PROCEEDINGS.		1. THE ESTIMATED POWER LOAD IS 1,482 KVA AND A HEATING LOAD OF 5264 SBTU/HR. 2. COURTROOM CONTROLS FOR AV SYSTEMS SHALL BE PROVIDED AT THE COURT REPORTER BOX. 3. PROVIDE FOUR DUAL VOICE / DATA COMMUNICATION OUTLETS TO DESIRABLE WALL LOCATIONS.	35	VCT	RB	GWB	ACT	9' - 0"	1. PROVIDE AN INDEPENDENT TEMPERATURE CONTROL OR THERMOSTATICALLY CONTROLLED EXHAUST FAN. 2. PROVIDE COOLING FOR CURRENT EQUIPMENT ARRAY AND ALLOW FOR EXPANSION OF COOLING REQUIRED TO DOUBLE THE DESIGNED LOAD/CAPACITY.
	134	MECHANICAL ROOM	PROVIDE A DEDICATED ROOM FOR THE MECHANICAL EQUIPMENT AND OTHER ASSOCIATED EQUIPMENT.			35	--	--	--	--	--	PROVIDE APPROPRIATE FINISHES IAW INSTALLATION REQUIREMENTS.
	136	ELECTRICAL ROOM	PROVIDE A DEDICATED ROOM FOR THE ELECTRICAL EQUIPMENT.			35	--	--	--	--	9' - 0"	PROVIDE APPROPRIATE FINISHES IAW INSTALLATION REQUIREMENTS.
	142	BREAK ROOM	PROVIDE A BREAK ROOM TO ACCOMMODATE VENDING MACHINES, BASE AND WALL CABINETS WITH SINK AND RECYCLING BINS FOR PUBLIC USE.			N/A	PVR	PVR	GWB	GWB	9' - 0"	
	142-A	LACTATION ROOM	SEPARATE SPACE FOR NURSING MOTHERS, NOT IN A RESTROOM, FREE FROM INTRUSION BY OTHERS.	DIMMABLE LIGHTING		35	CPT	RB	GWB	ACT	8' - 0"	SPACE TO SIT WITH AN ADJACENT FLAT SURFACE & ELEC OUTLET. INCLUDE A SINK WITH HOT & COLD WATER AND FULL LENGTH MIRROR.
	143, 144	PUBLIC RESTROOMS	PROVIDE SEPARATE MENS & WOMENS RESTROOMS FOR THE PUBLIC.			35	CT	CT	GWB/ GT	GWB	9' - 0"	ACCESS FROM THE LOBBY.



US Army Corps
of Engineers ®

[illegible]

800 DR. MARTIN LUTHER KING JR. PLACE LOUISVILLE DISTRICT LOUISVILLE, KY 40202	DESIGNED BY: US ARMY CORPS OF ENGINEERS	ISSUE DATE: 29 MAR 2012
	DRAWN BY: LAURA GRANT	SOLICITATION NO.:
	CHECKED BY: JENNIFER SCHROEDER/DLR	CONTRACT NO.:
JUDICIAL CENTER (JC) STANDARD DESIGN (VERSION 2)	SUBMITTED BY:	
	SIZE: ANSID	

DEPARTMENT OF THE ARMY FACILITY
STANDARDIZATION PROGRAM

SPACE REQUIREMENTS

SHEET ID

A-103

STANDARD DESIGN


$$1/8'' = 1'-0''$$

ATTACHMENT B
LEED CHECKLIST
JUDICIAL CENTER



LEED v4 for BD+C: New Construction and Major Renovation

Project Checklist

Project Name: Judicial Center Standard Design

Date: Mar-19

Y ? N

1			Credit	Integrative Process	1
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0	11	21	Location and Transportation		16
		16	Credit	LEED for Neighborhood Development Location	16
	1		Credit	Sensitive Land Protection *	1
	2		Credit	High Priority Site *	2
	5		Credit	Surrounding Density and Diverse Uses *	5
	1	4	Credit	Access to Quality Transit **	5
		1	Credit	Bicycle Facilities **	1
	1		Credit	Reduced Parking Footprint *	1
	1		Credit	Green Vehicles *	1

3	7	0	Sustainable Sites		10
Y			Prereq	Construction Activity Pollution Prevention	Required
	1		Credit	Site Assessment *	1
	2		Credit	Site Development - Protect or Restore Habitat*	2
	1		Credit	Open Space*	1
2	1		Credit	Rainwater Management*	3
	2		Credit	Heat Island Reduction*	2
1			Credit	Light Pollution Reduction*	1

7	4	0	Water Efficiency		11
Y			Prereq	Outdoor Water Use Reduction	Required
Y			Prereq	Indoor Water Use Reduction	Required
Y			Prereq	Building-Level Water Metering	Required
2			Credit	Outdoor Water Use Reduction	2
4	2		Credit	Indoor Water Use Reduction	6
	2		Credit	Cooling Tower Water Use	2
1			Credit	Water Metering	1

0	31	2	Energy and Atmosphere		33
Y			Prereq	Fundamental Commissioning and Verification *	Required
Y			Prereq	Minimum Energy Performance	Required
Y			Prereq	Building-Level Energy Metering	Required
Y			Prereq	Fundamental Refrigerant Management	Required
	6		Credit	Enhanced Commissioning *	6
	18		Credit	Optimize Energy Performance *	18
	1		Credit	Advanced Energy Metering *	1
	2		Credit	Demand Response*	2
	3		Credit	Renewable Energy Production*	3
	1		Credit	Enhanced Refrigerant Management*	1
		2	Credit	Green Power and Carbon Offsets**	2

1	4	8	Materials and Resources		13
Y			Prereq	Storage and Collection of Recyclables	Required
Y			Prereq	Construction and Demolition Waste Management Planning	Required
		5	Credit	Building Life-Cycle Impact Reduction**	5
	1	1	Credit	Building Product Disclosure and Optimization - Environmental Product Declarations*	2
	1	1	Credit	Building Product Disclosure and Optimization - Sourcing of Raw Materials*	2
	1	1	Credit	Building Product Disclosure and Optimization - Material Ingredients *	2
1	1		Credit	Construction and Demolition Waste Management *	2

5	9	2	Indoor Environmental Quality		16
Y			Prereq	Minimum Indoor Air Quality Performance	Required
Y			Prereq	Environmental Tobacco Smoke Control	Required
1	1		Credit	Enhanced Indoor Air Quality Strategies*	2
	3		Credit	Low-Emitting Materials*	3
1			Credit	Construction Indoor Air Quality Management Plan	1
2			Credit	Indoor Air Quality Assessment	2
		1	Credit	Thermal Comfort**	1
1	1		Credit	Interior Lighting*	2
	3		Credit	Daylight*	3
		1	Credit	Quality Views**	1
	1		Credit	Acoustic Performance**	1

2	4	0	Innovation		6
1	4		Credit	Innovation *	5
1			Credit	LEED Accredited Professional	1

0	4	0	Regional Priority		4
	1		Credit	Regional Priority: Specific Credit	1
	1		Credit	Regional Priority: Specific Credit	1
	1		Credit	Regional Priority: Specific Credit	1
	1		Credit	Regional Priority: Specific Credit	1

19	74	33	TOTALS	Possible Points: 110
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Certified: 40 to 49 points, Silver: 50 to 59 points, Gold: 60 to 79 points, Platinum: 80 to 110

Typically Achievable within UFC and Army Policy Criteria

Site, Installation, or Life Cycle Cost Analysis Specific. *Refer to Notes Tab

Not Typically Achievable, Cost Prohibitive or Prohibited. **Refer to Notes Tab

Location and Transportation

	Credit	Sensitive Land Protection *
	Credit	High Priority Site *
	Credit	Surrounding Density and Diverse Uses *
	Credit	Access to Quality Transit **
	Credit	Bicycle Facilities **
	Credit	Reduced Parking Footprint *
	Credit	Green Vehicles *

NOTES

LEED requirements differ slightly from Army Policy and UFC requirements. Typically Achievable.

Must meet USGBC priority designation definitions or be on a remediated site.
Typically only achieved by projects that are in walkable communities close to lots of services and amenities.

Applicable to projects that are located on urban sites only with proximity to public transportation with high daily frequencies.

Requires indoor bicycle storage and access to bicycle networks. Would require adjustments to floor plan.

Requires reduction in parking from the ITE standard.

Requires preferred spaces and alternative fuel stations (electric or alternative fuel)

Sustainable Sites

	Credit	Site Assessment *
	Credit	Site Development - Protect or Restore Habitat**
	Credit	Open Space*
	Credit	Rainwater Management*
	Credit	Heat Island Reduction*
	Credit	Light Pollution Reduction*

Unlikely. Requires significant pre-project effort; needs to be identified during DD1391/planning process

Possible for sites with open vegetated space with minimal turf. Open space must be physically accessible and be used as an area that accommodates social or physical activities.

Consistent with UFC requirements. Projects can get additional point by treating to 98th percentile.

Relies on both hardscape and roof being reflective.

BUG rating based. Easier to achieve for project within installation boundaries.

Water Efficiency

	Credit	Cooling Tower Water Use
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Possible for projects where Cooling Towers make sense and are LCCE.

Energy and Atmosphere

	Prereq	Fundamental Commissioning and Verification *
	Credit	Enhanced Commissioning *
	Credit	Optimize Energy Performance *
	Credit	Advanced Energy Metering *
	Credit	Demand Response*
	Credit	Renewable Energy Production*
	Credit	Enhanced Refrigerant Management*
	Credit	Green Power and Carbon Offsets**

Prerequisite requires third party commissioning agent to be brought on during design.

Requires third party commissioning agent to be brought on during design. Most requirements are consistent with government policy requirements, but require some adjustments.

Based on LCCA.

Based on LCCA.

Based on LCCA.

Based on LCCA.

Based on LCCA.

Prohibited by policy. .

Materials and Resources

	Credit	Building Life-Cycle Impact Reduction*	Requires re-use of building materials. Difficult to ensure quality
	Credit	Building Product Disclosure and Optimization - Environmental Product Declarations*	Easy to implement through contract language. However cost prohibitive due to availability of materials meeting requirements.
	Credit	Building Product Disclosure and Optimization - Sourcing	Easy to implement through contract language. However cost prohibitive due to availability of materials meeting requirements.
	Credit	Building Product Disclosure and Optimization - Material Ingredients*	Easy to implement through contract language. However cost prohibitive due to availability of materials meeting requirements.
	Credit	Construction and Demolition Waste Management *	Two points likely.

Indoor Environmental Quality

	Credit	Low-Emitting Materials*	Easy to implement through contract language. However cost prohibitive due to availability of materials meeting requirements.
	Credit	Thermal Comfort	Unlikely due to nature of facility.
	Credit	Interior Lighting*	
	Credit	Daylight*	Possible by top lighting or clerestory.
	Credit	Quality Views**	Unlikely due to Floor Plan Layout.
	Credit	Acoustic Performance*	Possible with additional cost for acoustic measures.

Innovation

	Credit	Innovation *	Most innovation strategies available require additional cost.
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Regional Priority

	Credit	Regional Priority: Specific Credit *	Bonus points based on region of the project and credits that are attempted.
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