



**US Army Corps
of Engineers**

MIDDLE EAST DISTRICT

**CENTER OF STANDARDIZATION -
CONTINGENCY DESIGN STANDARDS**

**Non-Permanent
Role 2 Medical
Treatment
Facility**

Facility Standard

October 15, 2014

Description:

This Facility Standard establishes the minimum facility capability baseline for all Theaters across the Unified Land Operations (ULO) spectrum of operations sub-categorized by function/task and mission profile that delineates levels of service (e.g., initial entry (first 180 days), temporary (NMT 2-years), semi-permanent (NLT 2-years and NMT 5-years). Theater unique requirements commonly executed within a geographic region are “special considerations” and contained in the “Specific Theater Design Considerations” segment of the Guidance Section of this Army Standard. The Chief of Engineers (COE) is the Joint Chiefs of Staff (JCS) Executive Agent for programmatic oversight, arbitration, or adjudication ICW the Joint Operations Engineer Board (JOEB) for this Facility Standard.

Applicability:

- The Non-Permanent Role 2 Medical Treatment Facility (hereafter referred to as the NP ROLE 2 MTF) Facility Standard establishes the baseline planning, design, and construction thresholds for all NP ROLE 2 MTF functional spaces unless otherwise stipulated (e.g., Theater Options) by superseding Service requirements that cannot be met without a request for deviation (see Waivers below).
- This Facility Standard shall be used in conjunction with the Army Facility Component System (AFCS) and Joint Construction Management System - JCMS (currently fielded as the Theater Construction Management System - TCMS) with Force Structure, operational, and logistics having priority over technical considerations.
- This Facility Standard applies equally to all Non-Permanent facilities of this type and within the mission consideration parameters outlined in the Description above for Initial, Temporary, and Semi-Permanent. When feasible mandatory requirements and guidance for semi-permanent facilities should be incorporated into the design of temporary facilities.
- This Facility Standard supersedes space allowance standards and/or criteria contained in AR 405-70, any permanent construction standards and criteria developed under AR 420-1, and serves as the primary authority for Non-Permanent facilities worldwide.
- This facility is excluded from complying with the Architectural Barriers Act Accessibility Standard for Department of Defense Facilities and the October 31, 2008 DoD Memorandum "Access for People with Disabilities" due to its use only by able-bodied military personnel.
- This facility is not required to provide the code required drinking fountains.
- This standard applies to standalone facilities containing only the functional space described in this standard, as well as multiuse, facilities that contain functional spaces described in this standard.

Waivers:

- Waiver Request from this Standard shall be submitted by either the Combatant Command (COCOM), Joint Forces Land Component Command (JFLCC), or Army Service Component Command (ASCC) J/G-4 and forwarded to the appropriate Surgeon or Surgeon General's office (SGO).
- All Waiver Requests shall include Command endorsement of cost, logistics and time or delay to implement the deviation cited.
- Deviations will cite specific metric or threshold in question, any relevant citation or requirements to identify the existing conflict requiring resolution, compelling justification or detailed operational or mission impact if deviation is denied.
- All waiver requests to this Standard requires Contingency - Center of Standardization (C-COS) review, adjudication, and/or conflict resolution prior to submission by the appropriate J/G-4 activity cited above.

- All SGO approved waivers shall be documented in the appropriate Theater mission/master plan (generally, either the logistics plan or operations plan of the J/G-staff) thereby serving as the modified standards for the facility type affected within confines of the mission scope and duration.
- Permanent construction standards, criteria, and technical engineering guidance may be considered to the extent feasible within the mission context or operational parameters. However, citation of permanent construction standards, criteria, or technical guidance is NOT sufficient, sole justification for deviating from this Standard.
- Late submissions and/or execution delays are NOT sufficient standalone justification for accelerated review or other dispensation to meeting the Standard contained herein.
- As a non-permanent or expeditionary construction solution, this Standard cannot afford a lengthy adjudication process. Hence, any Waiver Request will be reviewed and adjudicated only once. Multiple submissions absent fundamentally compelling or new facts will not be re-considered. Hence, specificity and definitive explanation of what needs to be deviated from, how that deviation will be met, and a compelling justification of operational or mission impact (what specifically cannot be met) is imperative when submitting a Waiver Request.
- The intent is to comply with the requirements of this standard design criteria.
- In the event a waiver or exception is required, contact the assigned Health Facility Planner, Combatant Command or Task Force Surgeon or Service Surgeon General's Office.
- A permanent record of Waiver Requests and their final outcome will be maintained by the C-COS for future trend analysis and refinement of Joint Standards, lessons learned, or future adjudication.

The Facility Standard table(s) establishes thresholds (minimum acceptable) for mandatory requirements contained in this Facility Standard. Deviations from Facility Standard table(s) require waiver approval PRIOR to design implementation or construction execution.

The Guidance Section provides instructions and definitions necessary for the application of the mandatory requirements, thresholds, and metrics outlined and described within the Facility Standard table(s).

As such, they are used in conjunction with the Facility Standard in order to consistently ensure the intent and embedded functionality contained herein will meet the Joint operations requirements for Non-Permanent facility construction within the mission parameters and fiscal constraints for the COCOM Commander.

FACILITY STANDARD

ITEM	MANDATORY CRITERIA	Mission Phase
Site Selection & Planning	Provide, for units with organic medical capabilities, a Role 2 Medical Treatment Facility.	Initial/Temporary/Semi-Permanent
Role 2 Medical Treatment Facility	Provide unit allocated space for advanced trauma life support (ATLS or minor Trauma), dental, optometry, physical therapy, combat stress, blood, clinical laboratory, and preventive medicine (AJP 4.1 O (A)).	Initial
	Provide medical space for advanced trauma life support (ATLS or minor Trauma), dental, optometry, physical therapy, combat stress, blood, clinical laboratory, and preventive medicine (AJP 4.1 O (A)) Building area minimum of 778 m ² to maximum of 2137 m ² gross area, for Type IIB construction and 836 m ² gross area, for Type VB construction.	Temporary / Semi-Permanent
Latrine	Place Latrine Facility within 20 meters of a Role 2 Facility.	Initial
	Place Latrine Facility within 20 meters of a Role 2 Facility. OR Provide latrines within the facility envelope that is ABA compliant.	Temporary/Semi-Permanent
Utility Infrastructure Room	Telecommunications space shall comply with I3A Technical Criteria. Provide a room NLT 29.7 m ² net area.	Temporary/Semi-Permanent
Supplies / Equipment Storage Room	Provide a room NLT 18.6 m ² net area.	Temporary/Semi-Permanent
Janitor's Closet	Provide room NLT 5 m ² .	Temporary/Semi-Permanent
Examination Room	Provide a minimum of 2 per medical provider. Provide a room NLT 9.1 m ² net area.	Temporary/Semi-Permanent

Treatment / Trauma Space	Provide a space NLT 46.5 m ² net area with direct access to exterior with min 1.8 m wide opening, adjacent to vehicular drop-off, NLT 2.5 m of clear unobstructed access. Doors for exam rooms shall have gurney access with 1120 mm minimum clear width.	Temporary/Semi-Permanent
Entrance Vestibule	Provide at trauma entrance NLT 30 m ² net area.	Temporary/Semi-Permanent
Dispensing / Pharmacy Area	Provide an area NLT 11.1 m ² net area dedicated for this space.	Temporary/Semi-Permanent
Soiled Utility Room	Provide a room NLT 18.63 m ² net area.	Temporary/Semi-Permanent
Multi-Use Staff Space	Provide a room NLT 37.2m ² net area. Provide NLT 3 multi-use staff spaces.	Temporary/Semi-Permanent
Medical Provider Office	Provide NLT 5.9 m ² of space for each medical provider. Provide a room NLT 5.9 m ² net area for single occupancy, but not greater than 9.3 m ² net area for double occupancy.	Temporary/Semi-Permanent
Clean Utility Room	Provide a room NLT 18.6 m ² net area.	Temporary/Semi-Permanent
Waiting Area	Provide a designated area NLT 37.2 m ² net area. NLT 0.6 m ² NMT 0.8 m ² net area per person. Program 3 spaces per exam room.	Temporary/Semi-Permanent
Reception	Provide a designated area NLT 5.6 m ² net area.	Initial/Temporary/Semi-Permanent
X-Ray	Provide a room NLT 9.3 m ² net area. Mobile X-Ray unit. Place X-Ray room on exterior wall.	Initial/Temporary/Semi-Permanent
Dental Exam	Provide a room NLT 9.3 m ² net area.	Initial/Temporary/Semi-Permanent
Dental Lab	Provide a room NLT 5.6 m ² net area.	Initial/Temporary/Semi-Permanent
Combat Stress Individual Counseling Room	Provide two rooms NLT 9.3 m ² net area each.	Initial/Temporary/Semi-Permanent

Combat Stress Group Counseling Room	Provide a room NLT 13.9 m ² net area.	Initial/Temporary/Semi-Permanent
Preventive Medicine	Provide a room NLT 11.1 m ² net area.	Initial/Temporary/Semi-Permanent
Physical Therapy	Provide a room NLT 13.9 m ² net area.	Initial/Temporary/Semi-Permanent
Optometry Exam	Provide a room NLT 9.3 m ² net area.	Initial/Temporary/Semi-Permanent
Optometry Lab	Provide a room NLT 11.1 m ² net area.	Initial/Temporary/Semi-Permanent
Blood	Provide a room NLT 13.9 m ² net area.	Initial/Temporary/Semi-Permanent
Laboratory	Provide a designated area NLT 5.6 m ² .	Initial/Temporary/Semi-Permanent

GUIDANCE

General. The following guidance for application of this Army Standard is provided for design/construction agent use in coordination with the construction provider within theater and as designated by the Army Service Component Commander (ASCC)/Joint Forces Land Component Commander (JFLCC) or equivalent activity as designated by the Combatant Command (COCOM). All design/construction agents shall incorporate the key mandatory design features described within the Guidance Section herein in close coordination with the US Army Corps of Engineers (USACE) Contingency - Center of Standardization (C-COS) – Middle East District, Transatlantic Division. All Temporary and Semi-Permanent Role 2 Medical Treatment Facility projects must be reviewed by the COS.

1. This section of the Army Standard is a necessary component for determining the application and implementation of the mandatory requirements and thresholds established in this standard. The COS, in coordination with the Contingency Facility Design Team (FDT), is the final arbitrator for any conflicts or inconsistencies in the application of these standards as well as a mandatory reviewer prior to submission of any formal Waiver Requests. Citing project execution delays as the sole justification for expedited review or other accelerated dispensation for deviating from meeting the Army Standards is NOT considered a compelling reason for deviation. Late submissions must be substantiated by unforeseen impact; documented life safety, health and welfare issue; or, compelling mission imperatives that cannot be met without an approved waiver.
2. This Army Standard applies to the full range of Initial through Semi-Permanent construction solutions throughout the spectrum of operational durations.
3. Commander is defined as Combatant Commander or designee with a rank no lower than J/G-4 in the COCOM, JFLCC, or ASCC staff.
4. Local Commander is defined as the senior officer with facility responsibility.

Design Philosophy.

1. Army doctrine, operations, and readiness requirements validation across all Doctrine, Organization, Training, Materiel, Leader Development and Education, Personnel, and Facilities (DOTMLPF) domains were used as the foundation for requirements. These requirements are vetted by Army processes in response to capabilities identified through the Joint Capabilities Identification and Documentation System (JCIDS) to the maximum extent feasible. Consequently, requirements that are contained herein consider past shortfalls and gaps, current needs, and future requirements simultaneously from a facilities context. Hence, deviation from these requirements must carefully consider longer-term needs when considering temporary and/or semi-permanent solutions.
2. The primary staff activity responsible for construction in the Theater of Operations is the J/G-4 in the COCOM, JFLCC, or ASCC staff. Consideration to logistical and fiscal tails associated with building materials, indigenous capabilities, threat, and mission scope/duration are primary decision points that override engineering solutions within a deployed or contingency arena. As such, mission decision parameters may override engineering technical solution or approach except in the areas of health and life safety. Notwithstanding are host nation or Status of Forces Agreements that are many times outside the military commander's purview. While every effort to consider sustainability, design impact, and standardized layout will be made, Force Structure, geopolitical, threat, security, and mission decision parameters will be paramount in selecting any construction solution method, materials, or approach (FM 3-34, JP 3-34).
3. All requirements are portrayed in performance results at the function or task level. This affords a wide range of construction material and engineering method solutions that are tailorable to the mission profile of the support mission at the time a facility is planned and designed. Mission duration projections may influence the selection of materials or methods of construction. This standard should not be utilized to perform 'what if' scenario analysis. Threat

and security are critical decision components for this aspect of design application and significantly influence ultimate design and construction solutions. Essentially, if the nature of the construction is to strive for a level of durability, constructability, or efficiency commensurate to permanent construction standards and criteria, then the design and construction requirements fall outside the mission scope and intent of this Army Standard and use of facility standards and criteria developed under the Army Facilities Standardization Program (AFSP – AR 420-1) are more cost effective and efficient to use. It is imperative that prior to commencing planning and design, such a determination be made at the COCOM, JFLCC, or ASCC level, whichever echelon has been designated as the “executing” or “executive” agent within Theater.

4. As a Non-Permanent solution, this Army Standard must also consider allied, coalition, and host nation requirements that are theater unique if they exceed the UFC 1-201-01 requirements. When these conditions exist or are known habitual considerations, they shall be addressed in individual Theater Baselines contained below. For joint and or allied facilities, the more stringent criteria shall be applied.

Specific Theater Design Consideration(s):

- None

Application Guidance.

1. Provide hand washing capability using water suitable for human consumption.
2. At the initial level, if hard plumbing is provided for hand washing, also provide a latrine.
3. If latrines are provided, use ratios per UFC 01-201-01.
4. If interior circulation is provided, the minimum width of the corridor shall be 2600 mm.
5. Provide ambulance parking adjacent to entrances. If a trauma area is to be provided, ambulance parking shall be placed at the trauma entrance.

Adjacency Requirements:

1. The Entrance Vestibule must be located adjacent to the Trauma Treatment Space.
2. The X-ray, Soil Utility, and Clean Utility must be located adjacent to the Trauma Treatment Space and Exam Space. Also the Exam Space must also be adjacent to the Trauma Treatment Space and Waiting Area.
3. Reception Control must be located adjacent to the Waiting Area.
4. The Optometry Lab must be adjacent to the Optometry Exam.
5. The Dental Lab must be adjacent to the Dental Exam.
6. The Combat Stress Individual Counseling must be adjacent to the Combat Stress Group Counseling.
7. The following rooms/spaces shall be placed in close proximity to the Waiting Area: Toilet, Lab, Pharmacy, Optometry Exam, Physical Therapy, Dental Exam and Combat Stress Counseling (Individual and Group).
8. The Provider Office must be placed in close proximity to the following rooms/spaces: Multi-Use Staff Space, Optometry Exam, Physical Therapy, Combat Stress Individual Counseling, Combat Stress Group Counseling, Dental Exam, Exam Space, and Trauma Treatment Space.

Reference Criteria. The designs shall use the latest editions of the following Design Criteria:

Joint Engineer Publication

- JP 3-34 Joint Engineer Operations

The Unified Facilities Criteria:

- UFC 1-201-01 Non-Permanent DOD Facilities in Support of Military Operations

Facility Category Code: The category code does not automatically imply specific gross area limit. "T" designates Non-Permanent Construction.

CATEGORY CODE	DESCRIPTION
T550102	Role 2 Medical Treatment Facility