

Facility Design Team

ARMY STRONG -

Mary Ellen McCrillis

HQDA, G-3/5/7 (Proponent)

Dolat G. Desai

OACSIM (Co-Chair)

David Carr

IMCOM (Housing)

Chip Williams

TRADOC, G-4

Goldie Bailey

ACES

Dwain Scott, R.L.A.

USACE, COS **AIT Barracks & Support Facilities** (Fort Worth District)

William J. Lawrence, R.A.

USACE, Architecture Section (Fort Worth District)

David Gary, P.E.

USACE, COS Dining Facility (Norfolk District)



5-STORY AIT B/COF – Ft. Lee, VA

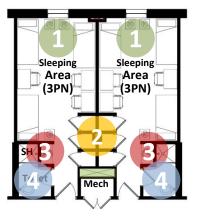


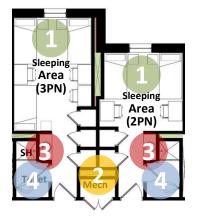
1300 PN DFAC – Fort Jackson, SC





B/COF Living Quarters





Current Floor Plan

Proposed Floor Plan

Design Criteria

- Base Design Capacity (BDC)
 BDC = 2 Occupants per Sleeping Area in 50% of the Living Quarters
- Peak Design Capacity (PDC)
 PDC = 3 Occupants per Sleeping Area in 50% of the Living Quarters
- Allocated Space per Occupant
 Base Design Capacity (BDC): 90 NSF
 Peak Design Capacity (PDC): 72 NSF

Redesigned Living Quarters to address reduced Peak Design Capacity

- In lieu of 100% of the Living Quarters designed to accommodate the Peak Design Capacity (PDC) of 3 Occupants per Sleeping Area only 50% of the Living Quarters will accommodate PDC
- Relocation of structural Grid lines removes column from built-in wardrobe closets
- Length of the Vanity Counter extended from 3'-0" to 4'-0"
- 4 Width of Toilet/Shower Room extended to provide more separation between toilet and shower

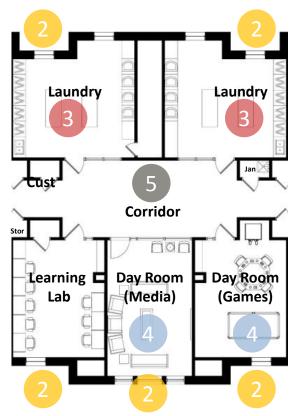




B/COF Standard Design



- 1 Central location of the Trainee Support
 Module among the Living Quarters provides
 improved trainee access to laundry rooms
 and recreational spaces
- 2 Relocation of the laundry and recreational spaces from the building's central core to the housing wings allows for natural day-lighting
- 3 Two Laundry Rooms provide gender separation for enhanced safety and security
- Two Day Rooms provide for separation of trainee recreational uses, Media (Quiet) and Games (Noisy)
- 5 Corridor width increased to minimize congestion at entrances to laundry rooms and trainee recreational spaces



Trainee Support Module



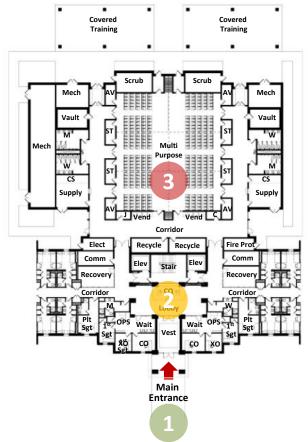




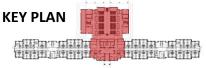
B/COF Standard Design

Reorganization of Administrative and Training /Instructional Areas to create a Training and Instruction Module

- Company COFs have been redesigned and remain at the front of the building. COFs are adjacent yet separated by and accessible from a single main entrance to the building
- Placement of the CQ Station to maximize visual site lines for enhanced safety and security
- Adjacency of Multi-Purpose/Instructional Areas for each Company provide maximum flexibility through the use of operable walls to partition instructional areas



Training and Instruction Module



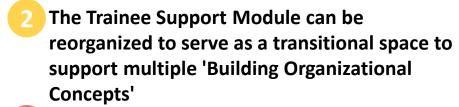
Proposed Design



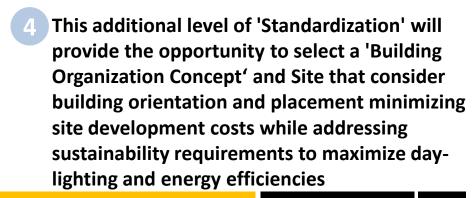
B/COF Proposed Standard Design Building footprint options

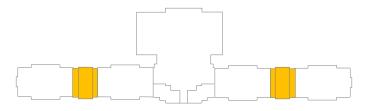
Standardization and Sustainability



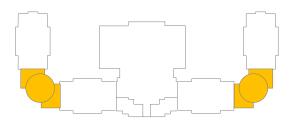


These 'Building Organizational Concepts'
will provide Installations with the ability to
consider multiple site configurations in the
development of their Installation Master Plan

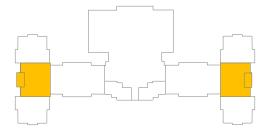




Building Organizational Concept 'A'



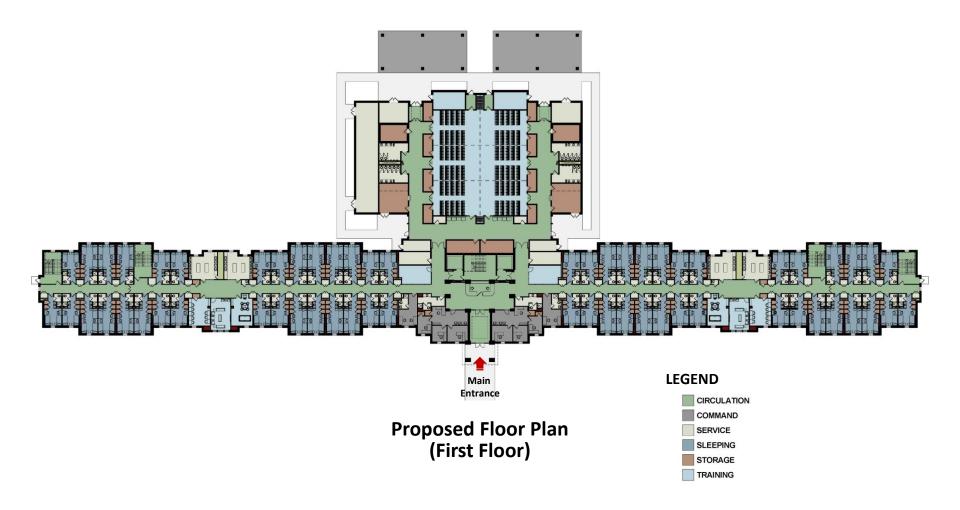
Building Organizational Concept 'B'



Building Organizational Concept 'C'

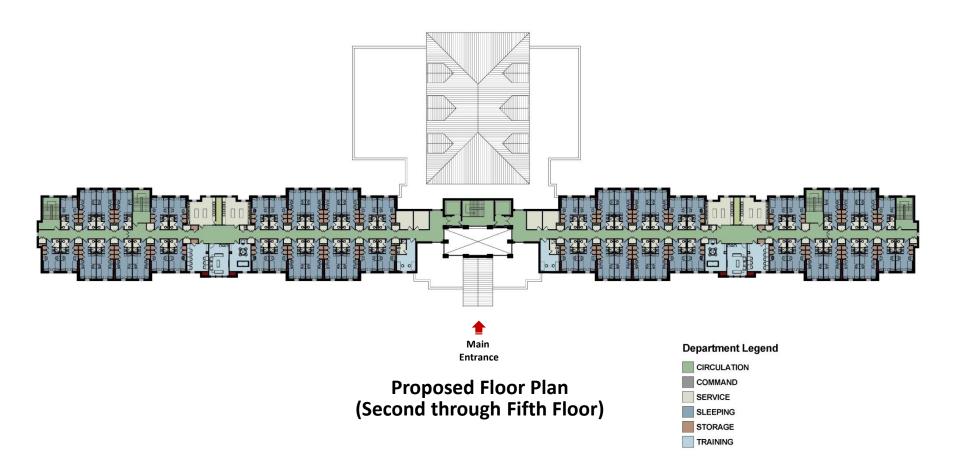








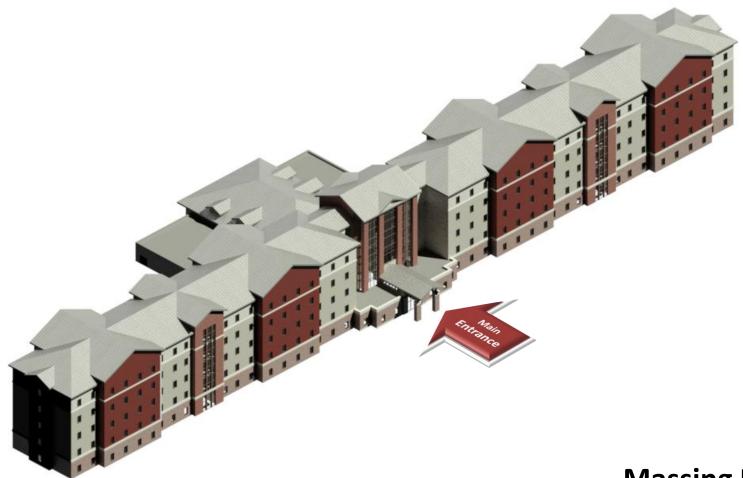








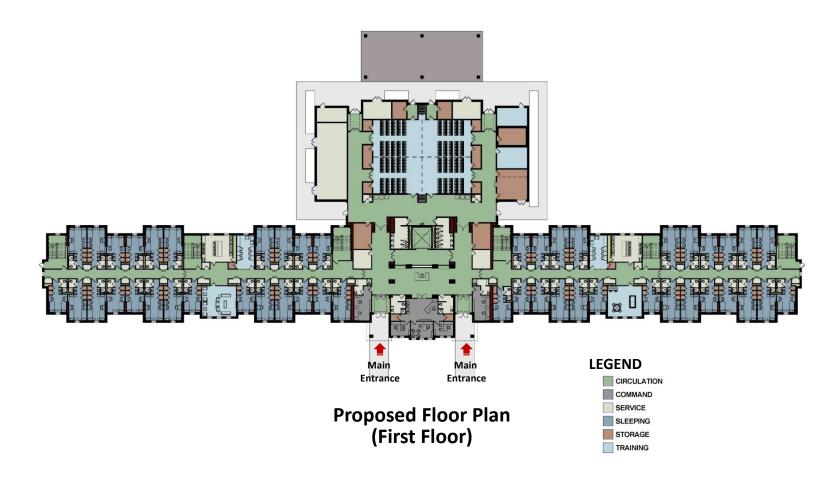
5-Story B/COF – Proposed Standard Design





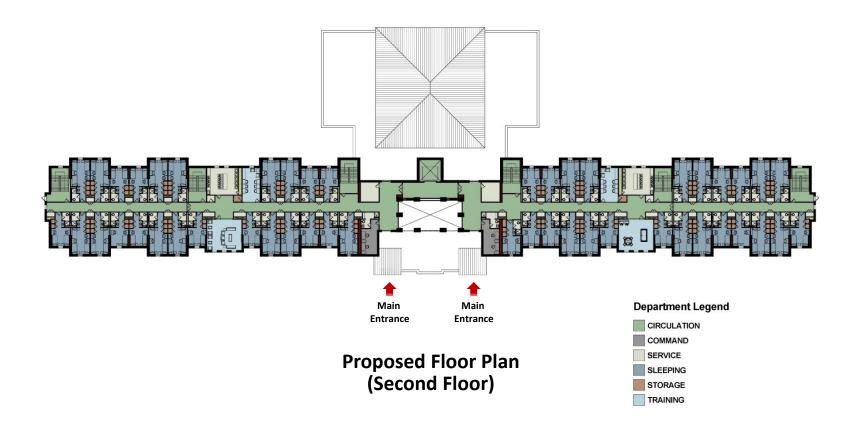








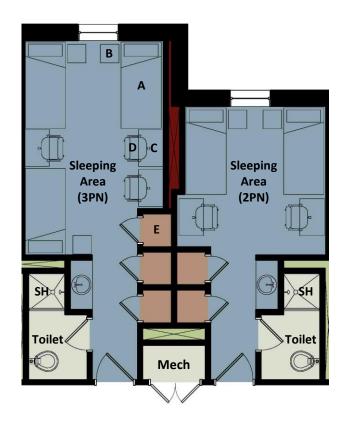








B/COF Living Quarters



Proposed Floor Plan



Design Criteria

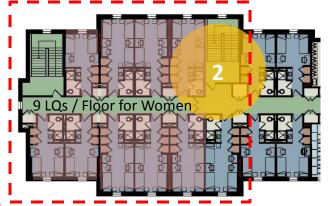
- Base Design Capacity (BDC)
 BDC = 2 Occupants per Sleeping Area in 50% of the Living Quarters
- Peak Design Capacity (PDC)
 PDC = 3 Occupants per Sleeping Area in 50% of the Living Quarters
- Allocated Space per Occupant Base Design Capacity (BDC): 90 NSF Peak Design Capacity (PDC): 72 NSF
- Authorized Furnishings per PN
 - A. One Bed (39" x 84")
 - B. One Night Stand (18" x 18")
 - C. One Desk (24" x 36")
 - D. One Chair (24" x 24")
- Authorized Personal Storage
 - E. Built-In Wardrobe Closet (24" x 36")



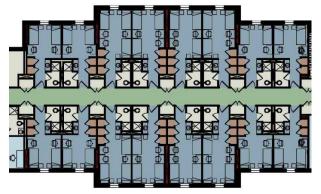


ARMY STRONG .

B/COF Proposed Standard Design



Living Quarters: 14 Room Module



Living Quarters: 16 Room Module



Grouping of individual rooms to create Living Quarters Modules

- Standardization of the 14-Room and 16-Room Living Quarters Modules provides symmetry and balance of building's massing with a more cost-effective building/roof structure.
- Placement of two pair of cross-corridor doors and internal stairs on the upper floors of each wing within the 14-Room Living Quarters Modules provides more flexibility for gender separation and enhanced Safety and Security

Number of Female Occupants per Floor:

- 1 Flr 18 BDC to 24 PDC 6.0% to 6.4%
- 2 Firs 36 BDC to 48 PDC 12.0% to 12.8%
- 3 Flrs 54 BDC to 72 PDC 18.0% to 19.2%
- 4 Firs 72 BDC to 96 PDC 24.0% to 25.6%



1B

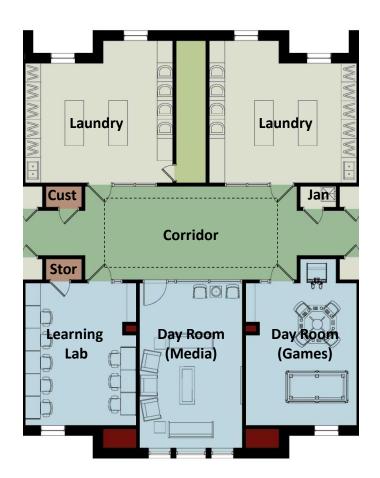


'Standardization'

B/COF Proposed Standard Design

Standardization and Sustainability 1 The Standardization of Building Program Components advances the concept of

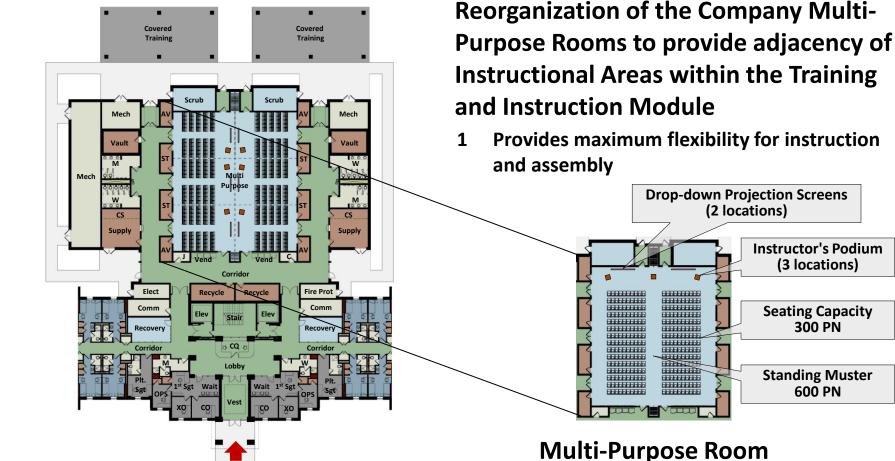
- 2 This Module can be reorganized to serve as a transitional space to support multiple 'Building Organizational Concepts'
- 3 These 'Building Organizational Concepts' will provide Installations with the ability to consider multiple site configurations in the development of their Installation Master Plan
- 4 This additional level of 'Standardization' will provide the opportunity to select a 'Building Organization Concept' and Site that consider building orientation and placement minimizing site development costs while addressing sustainability requirements to maximize daylighting and energy efficiencies



Trainee Support Module



Training Module



Training and Instruction Module

Entrance



Alternative Seating Plan

(300 PN in Chairs w/tablet arms)