Contingency CoS Catalog

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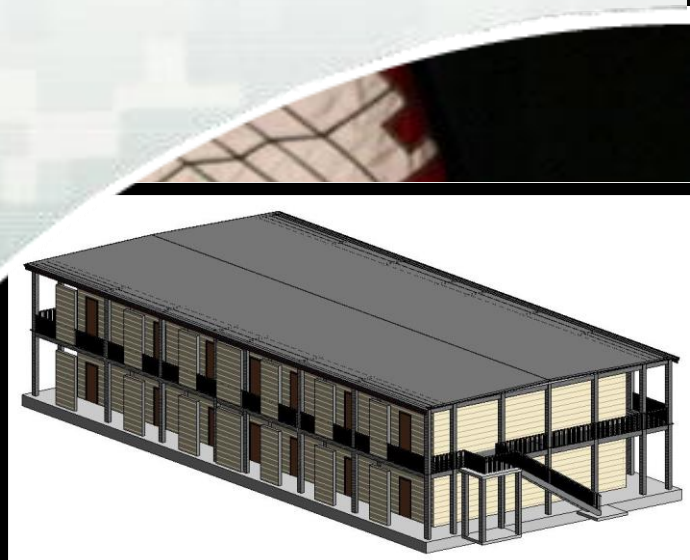
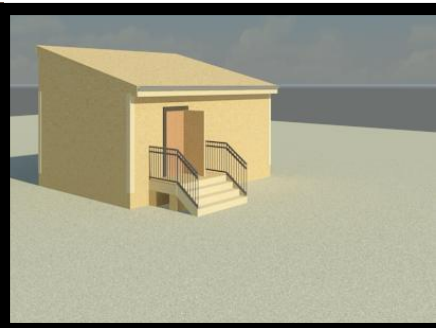




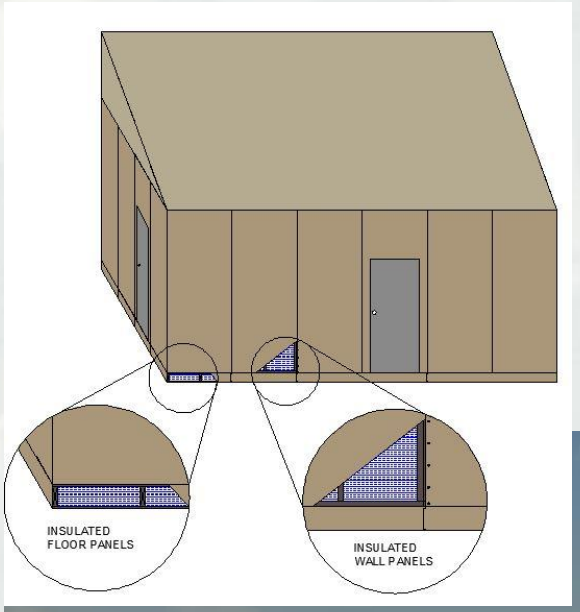
US Army Corps of Engineers
BUILDING STRONG®

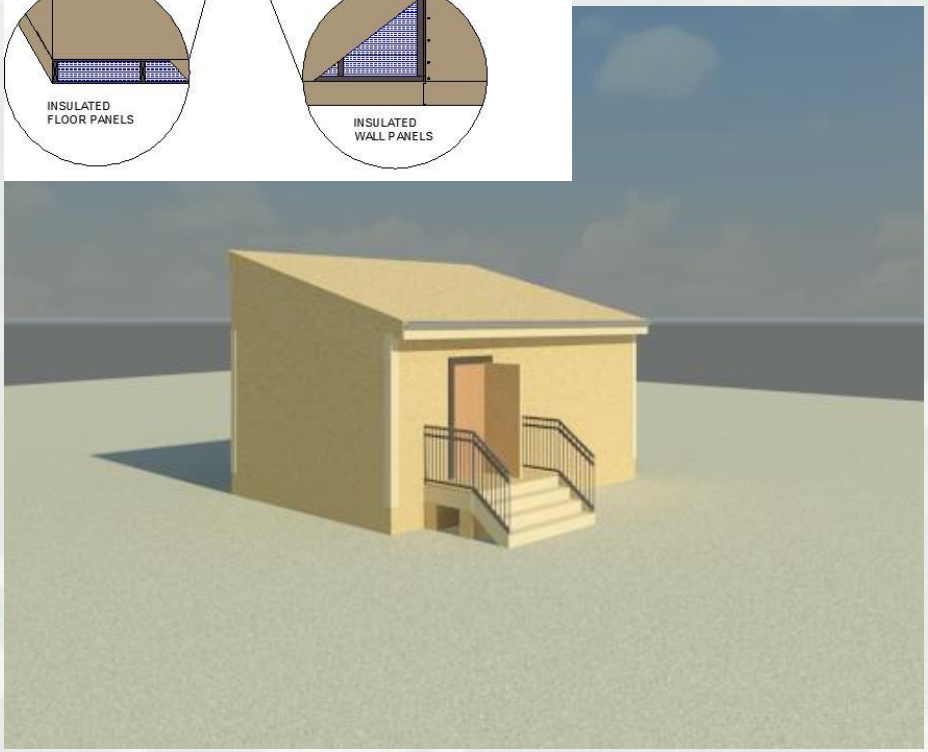
HOW TO USE THIS CATALOG FOR NON-PERMANENT FACILITIES

1. Decide which type of construction level:
    I. Initial (tents, containers and fabric structures) occupied for 6 months.
    II. Temporary (low cost, expedient and local material) occupied 5 years.
    III. Semi-Permanent (enduring presence, similar to permanent) occupied for 25 years.
2. Choose the Envelope which works best for your site and construction time.
    I. What local material is available? Wood? Concrete? Is the CMU block good quality which can be used as load bearing?
    II. What is the time frame you need this constructed?
        I. Wood is the fastest dependent on availability
        II. Concrete takes longer but more readily available.
        III. Compressed Earth Block is fast but requires 15% clay in soil or imported.
    III. There are 5 envelopes available:
        I. CUBE (Panelized Wood)
        II. SAFE (Concrete frame with CMU infill with protective roof)
        III. SAWS (Wood framed structure)
        IV. FACE (Load bearing CMU Structure)
        V. TERRA Hut (Compressed Earth Block Structure)

Common
Uniform
Building
Envelope

The B/SEA/SWAHut replacement

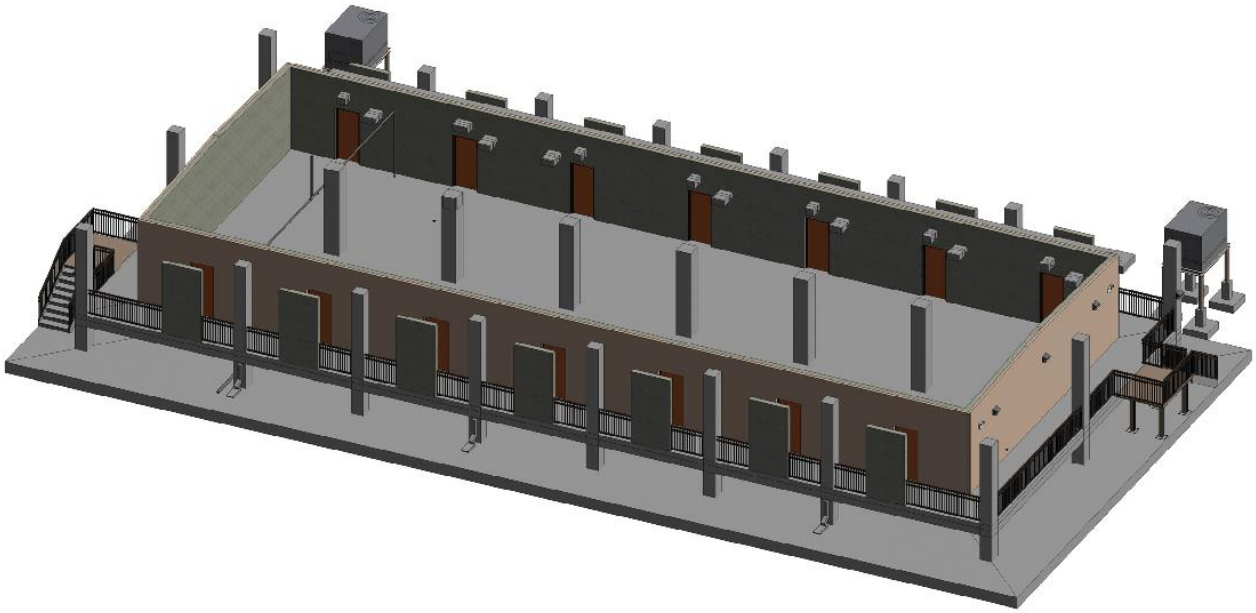




- Maximum size limited by occupancy
- Fabrication can be completed offsite
- Panelized Floor
- Panelized Walls
- Limited skill required to assembled/disassemble
- Transportable
- No heavy equipment needed to assemble
- Cost does not include mechanical and electrical system.
- 1-bay temporary facility to be occupied no more than 5 years.
- $10K and 40 man hours for construction and assembly.

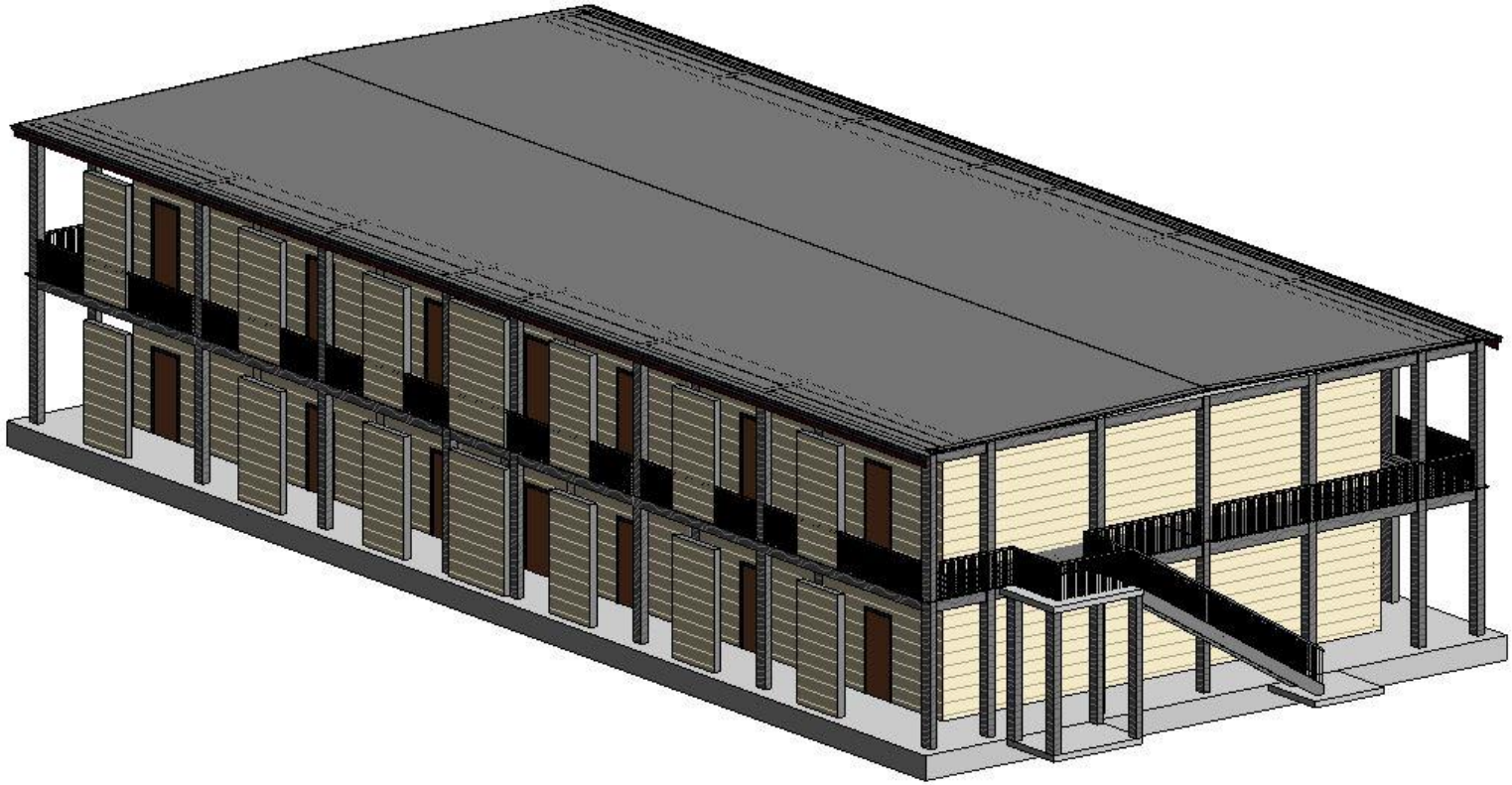
Standard Adaptive Facility Envelope

- 14 bay semi-permanent facility, not to be occupied longer than 25 years.
- Hardened structure with integral protective roof
- Standard bay size
- $?M



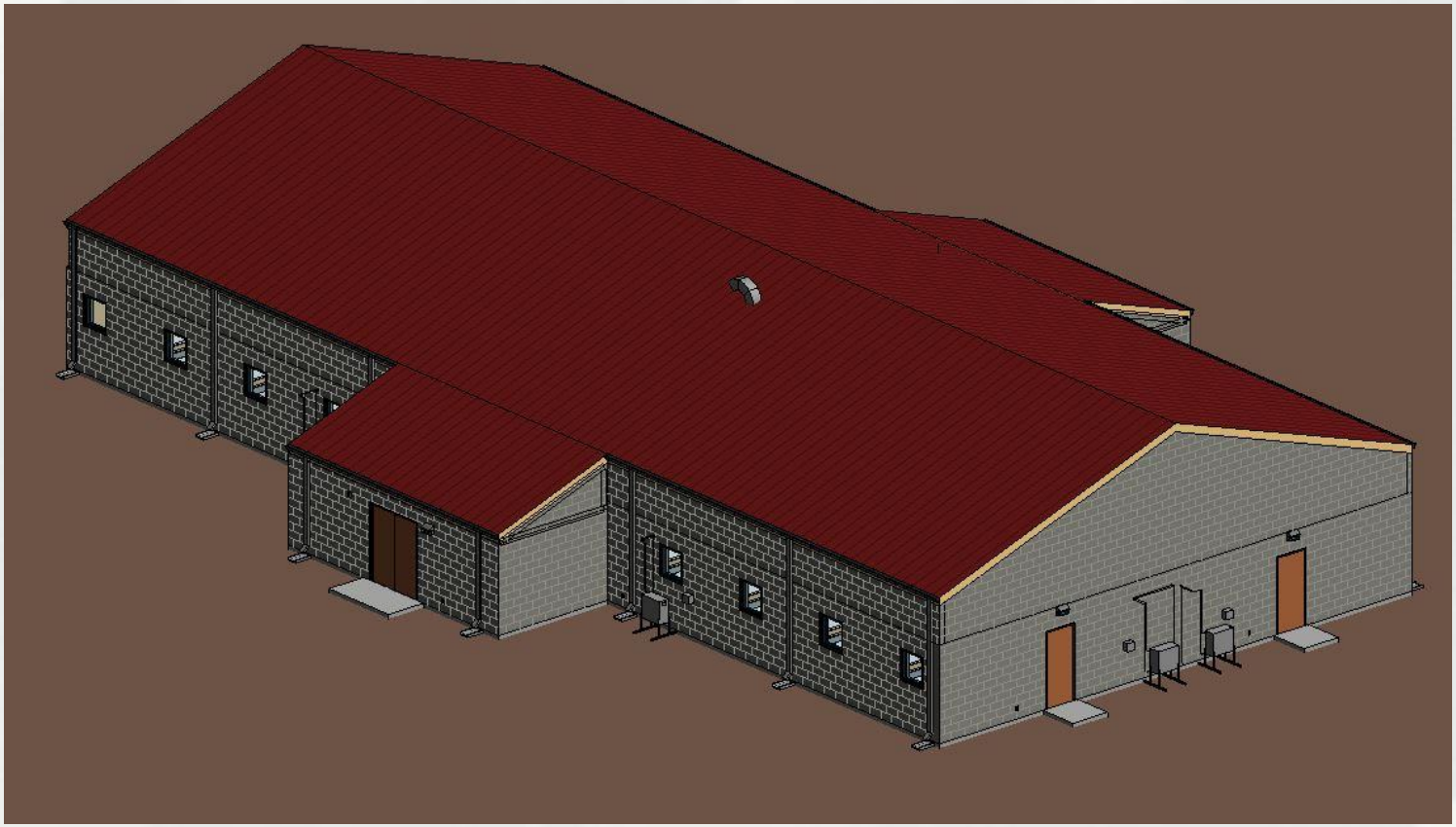
Standard Adaptive Wood Structure

- 14 bay semi-permanent facility to be occupied no more than 25 years.
- Wood facility
- Up to two stories
- Standard bay size
- Same footprint as SAFE



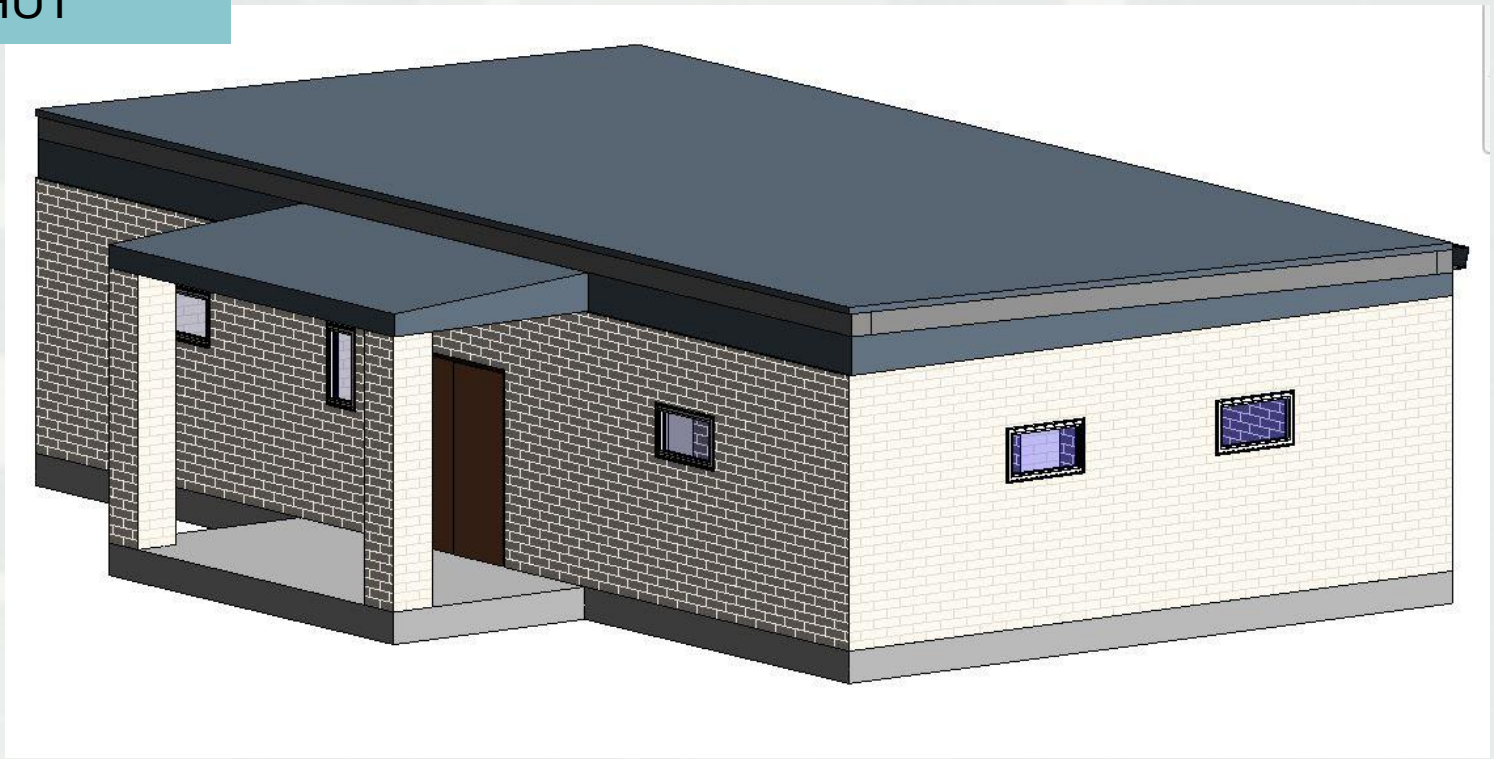
Four Area CMU Envelope

- 12 bay semi-permanent facility split into 4 quadrants which are 3 bays each.
- Load bearing CMU facility
- Single story
- Standard bay size
- Similar footprint as SAFE
- Can be four independent quadrants



Tactical Earthen Rapidly Raised Assembly HUT

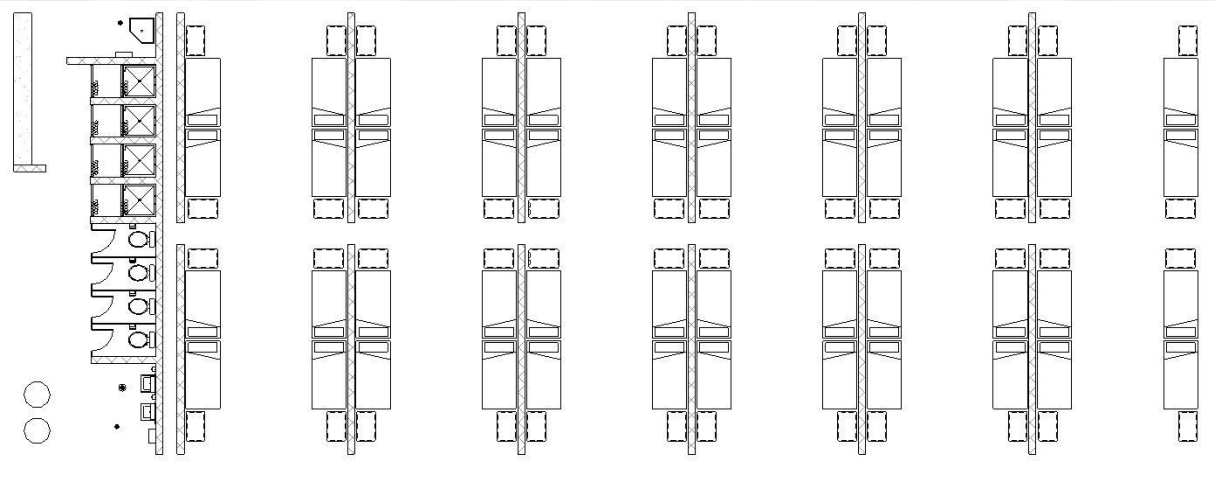
- 3 bay semi-permanent facility not to be occupied longer than 25 years.
- Constructed using onsite soils with 15% clay (minimum), 30% sand and 7% cement.
- Single story and can be hardened for direct and indirect fire.
- Cost does not include mechanical and electrical system.
- EARTH BLOX BP714 from Dwell Earth is $30K and mixer is $6K.
- 240 bricks an hour and cured for 7 days.
- Non-Protected $18K
  - 2720 bricks (non-hardened, 3,825 lbs of cement)
- Protected $30K
  - 6000 bricks (hardened 8,438 lbs of cement)



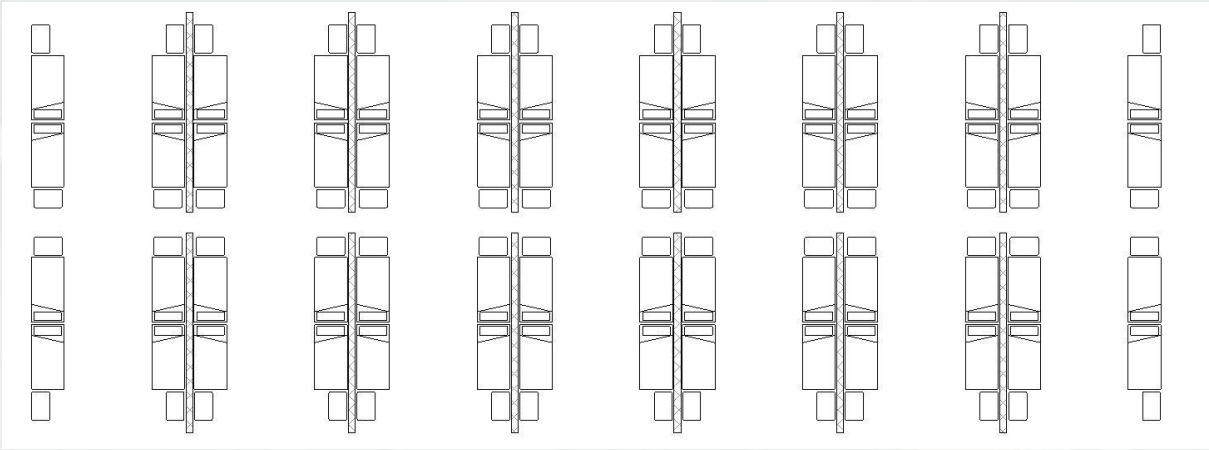
What interior space function (RAISE) do you need?

1. There are several space function which have been designed.
2. Note bay size for your interior. You may use several different interiors in the same envelope.
3. NOTE: There are some restrictions such as assembly (over 50 PN) needs to be on first floor. This can be discussed during the charrette.
4. NOTE: The cost is for contracted construction with ACF 1.0. Cost does NOT include exterior envelope. The cost is with CMU interior walls, wood or metal stud interior walls are less expensive. There is no FFE, unless noted. Mechanical and electrical systems are included in cost.

BILLETING



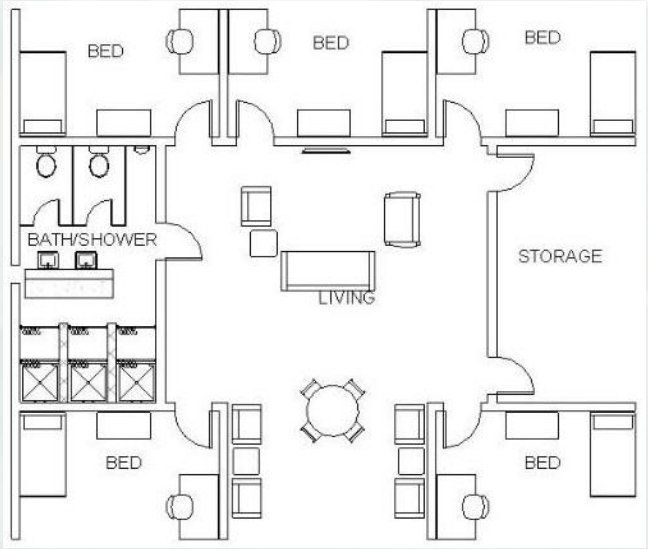
14 bay, full floor with latrine/shower

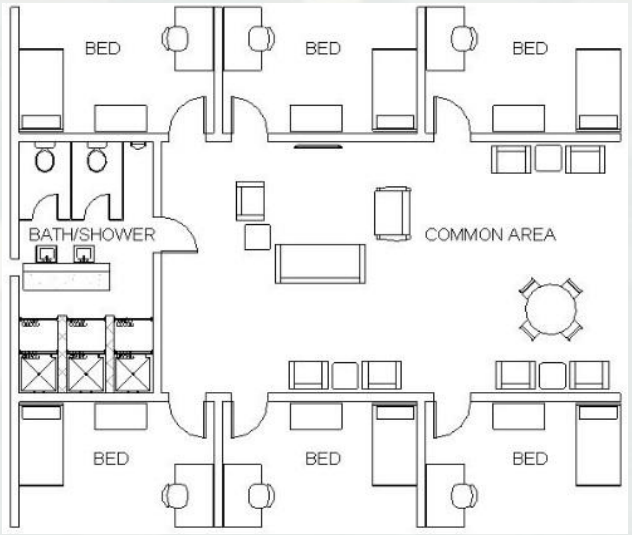


14 bay, full floor open

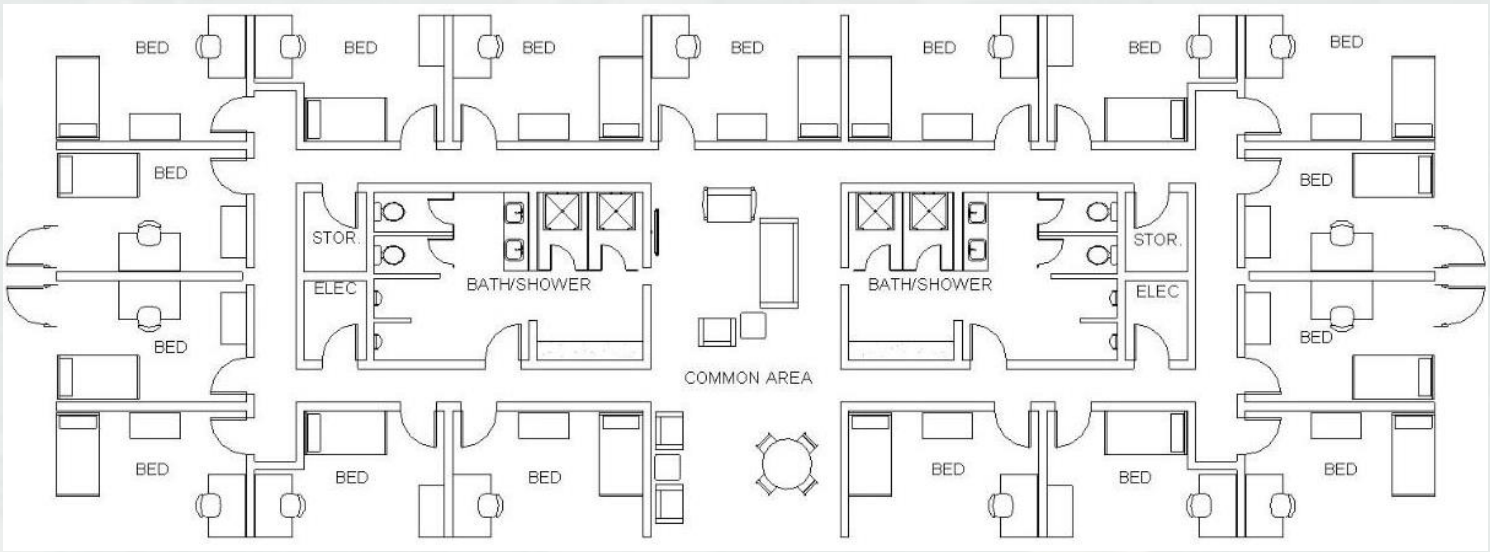
OFFICER QUARTERS

6 bay,5 PN



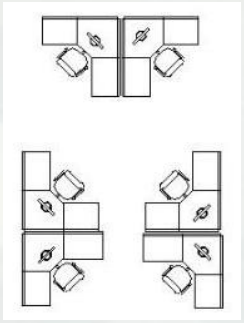


6 bay, 6 PN

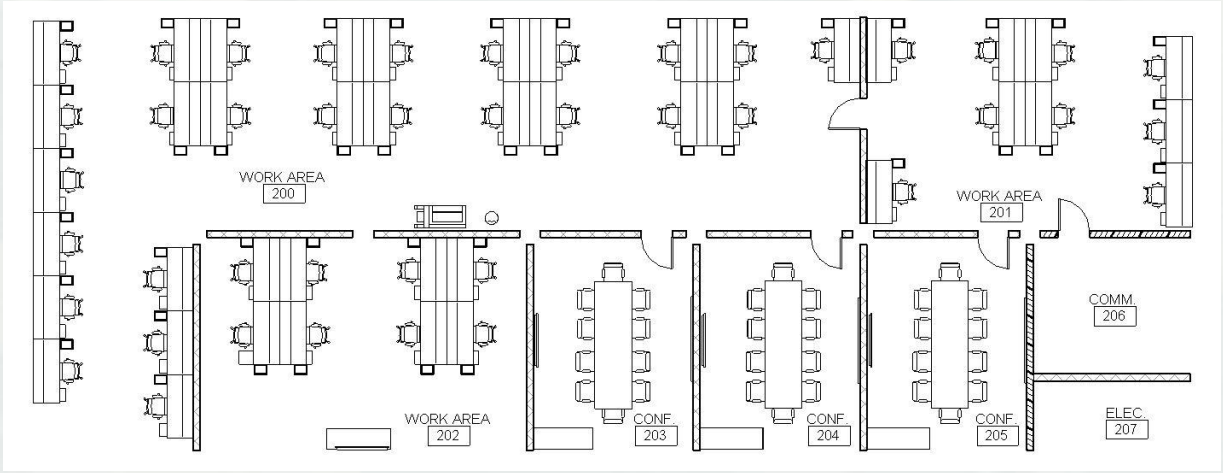


14 bay, full floor, 15 PN

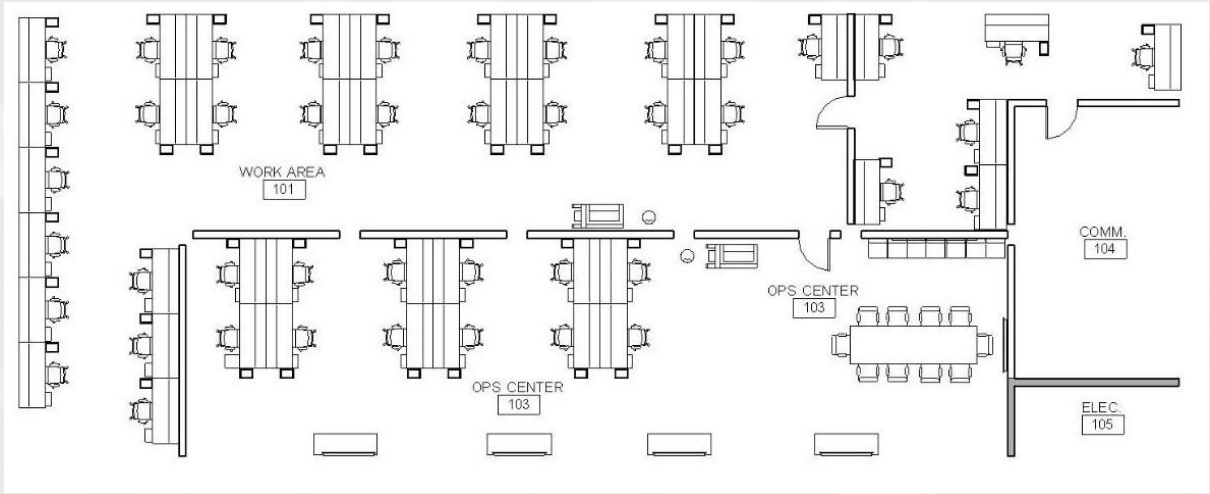
OPERATIONS CENTER



1 bay, 8PN

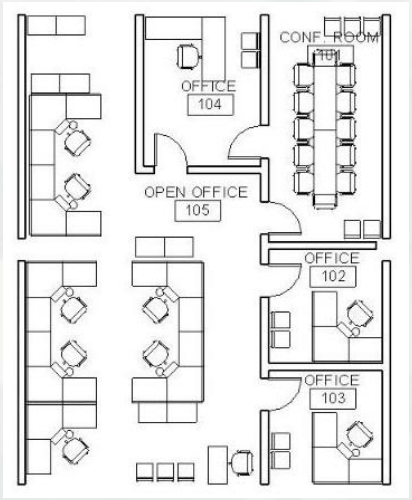


14 bay, full floor, $257K

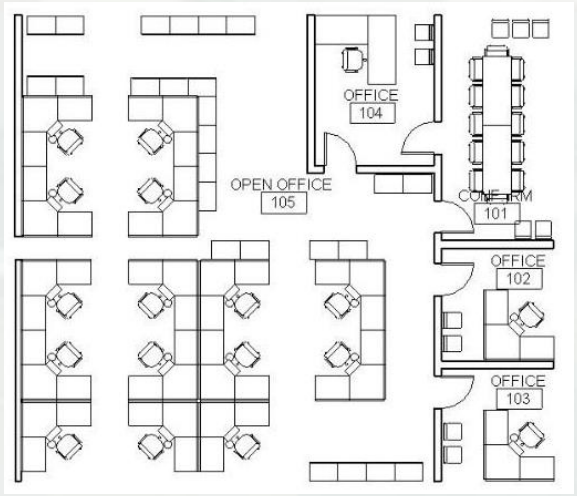


14 bay, full floor

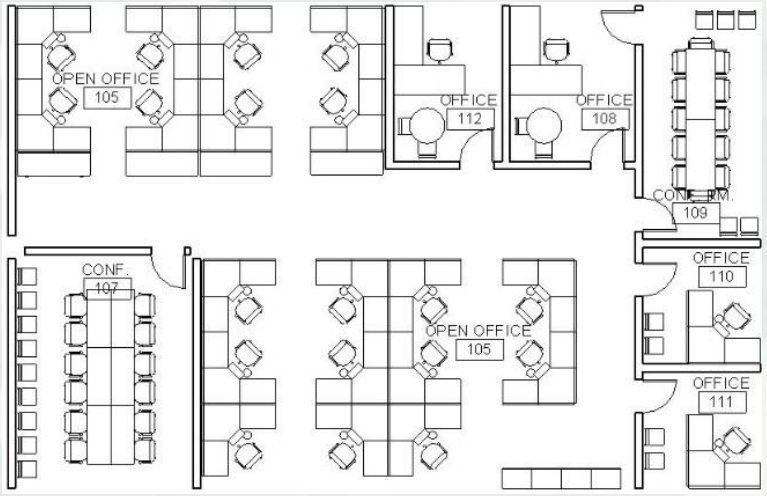
HEADQUARTERS



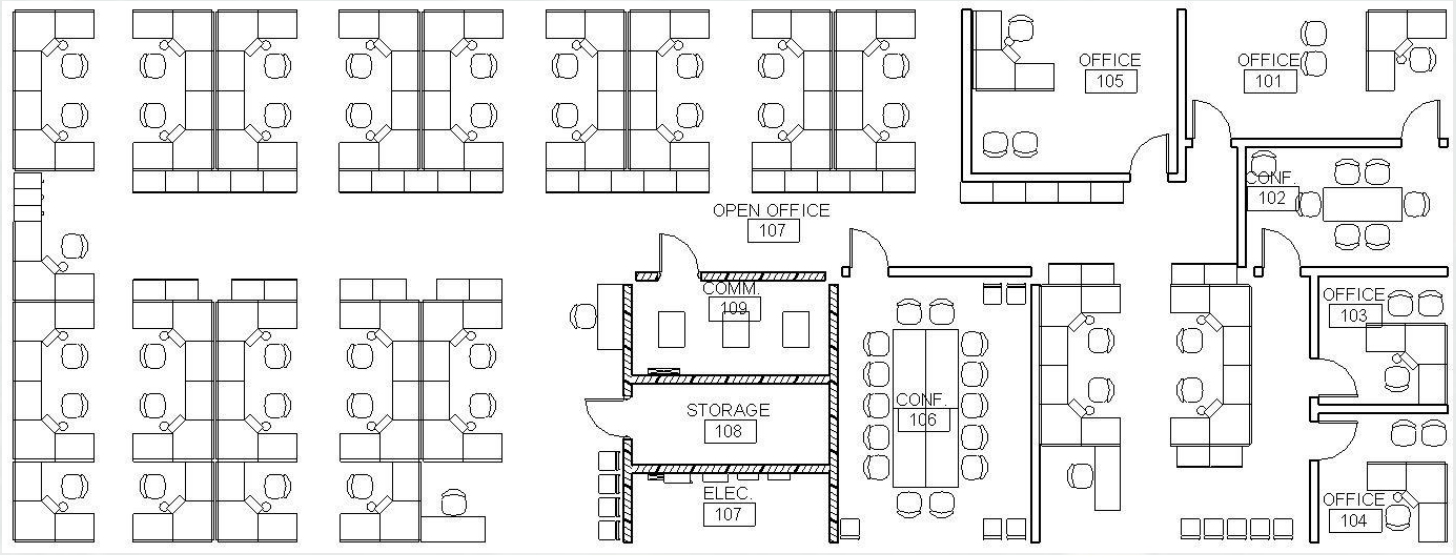
4 bay, 11PN, $131K



6 bay, 18PN, $160K



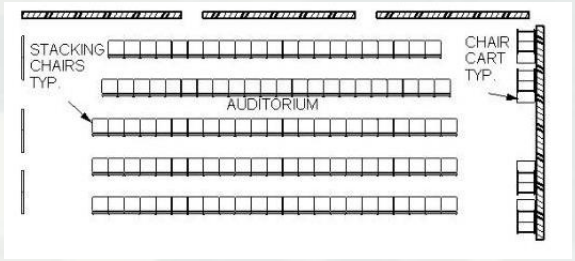
8 bay, 23PN, $224K



14 bay, full floor, 41 PN, $318K

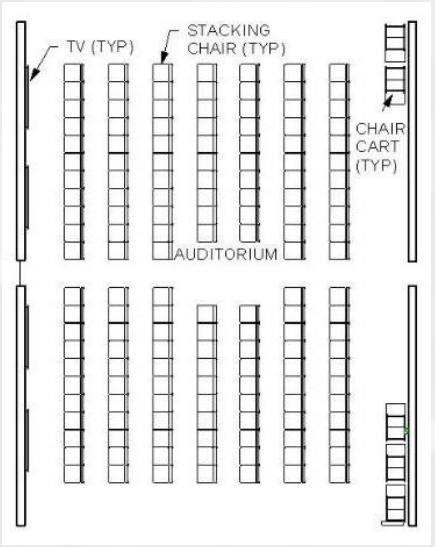
BUILDING STRONG®

ASSEMBLY/BRIEFING

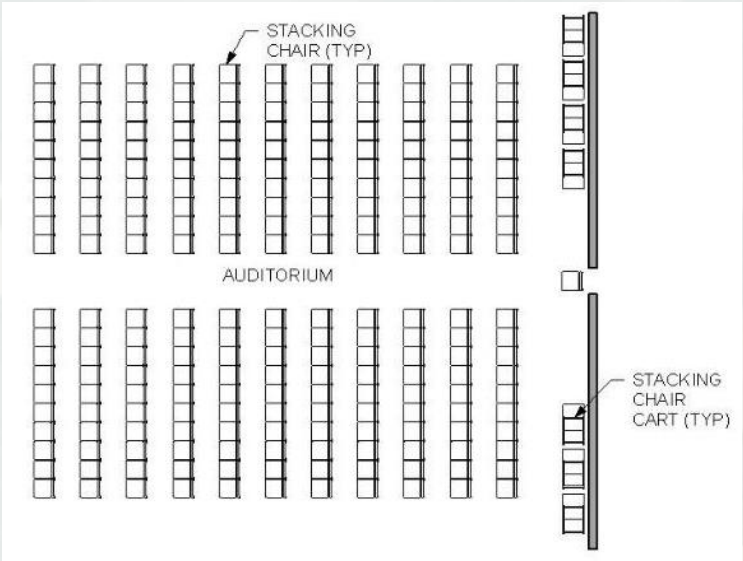


3 bay, 112 PN, $33K

Cost includes data and power connections for data screens.

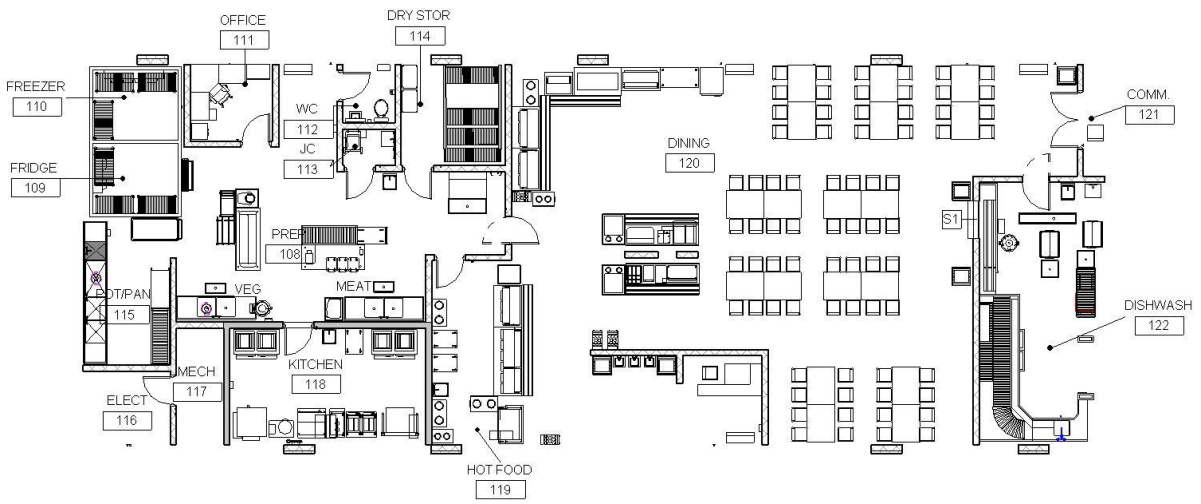


4 bay, 150 PN, $36K

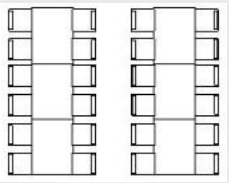


6 bay, 220 PN, $42K

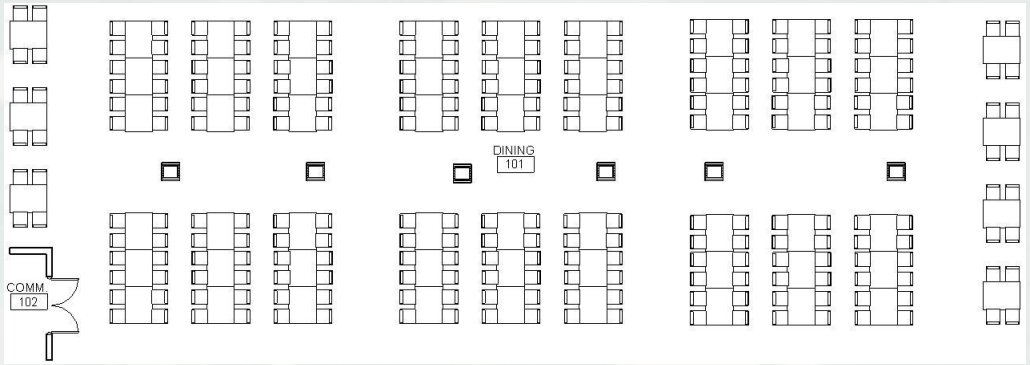
DINING FACILITY AND SEATING



500 PN DFAC, Full floor, 72 PN, $832K includes kitchen equipment but not furniture.

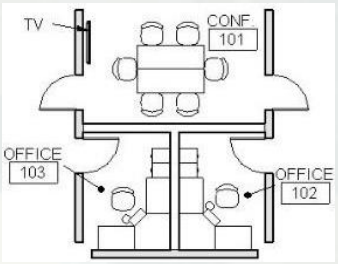


1 bay, 12 PN, $10K

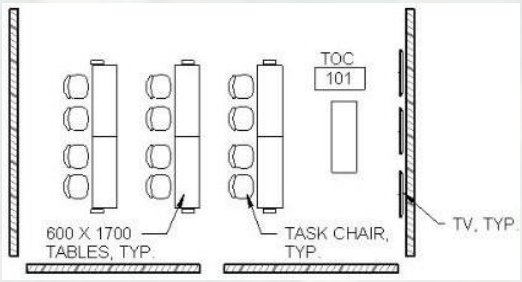


14 bay, full floor seating, 244 PN, $40K

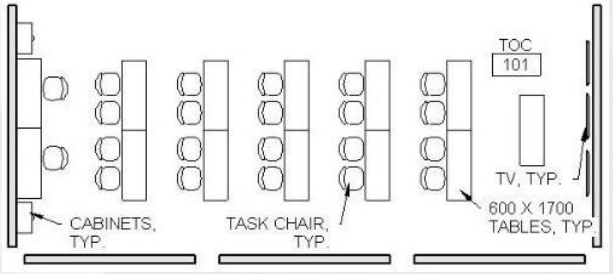
Tactical Operations Center



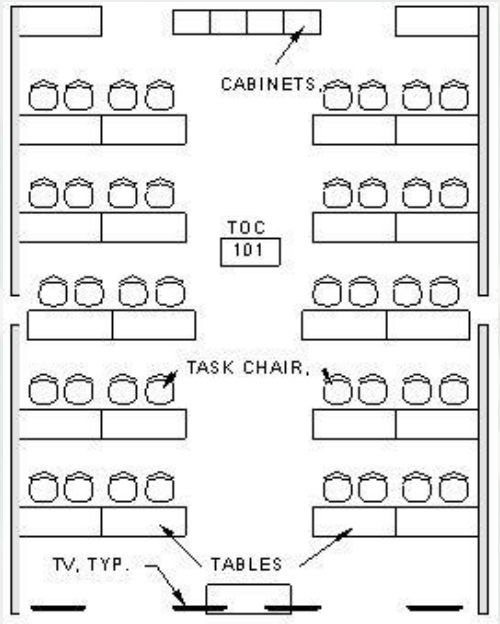
1 bay, 2PN, $35K



2 bay, 12PN, $44K

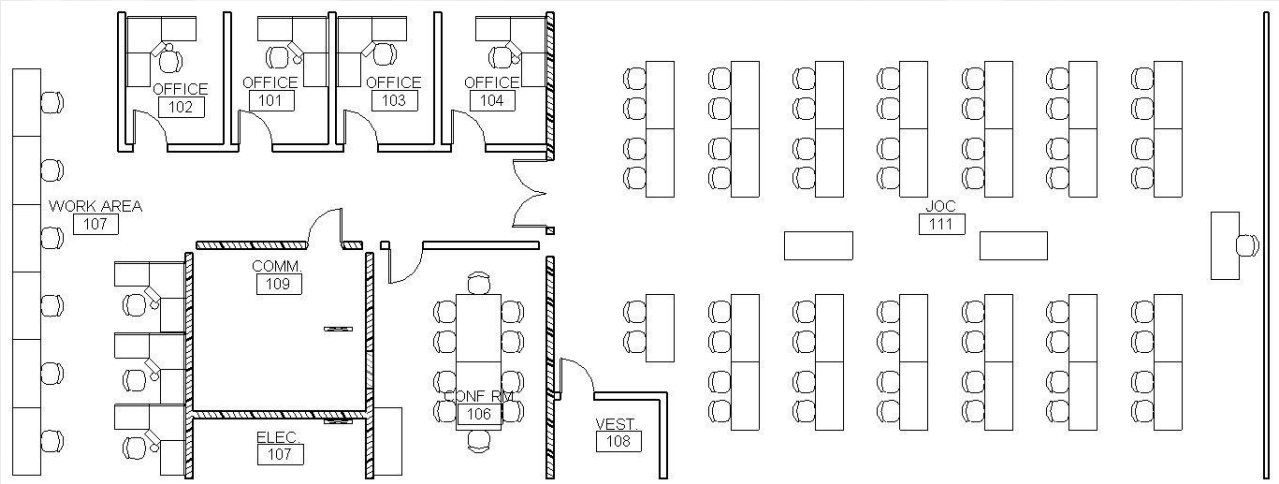


3 bay, 22PN, $59K

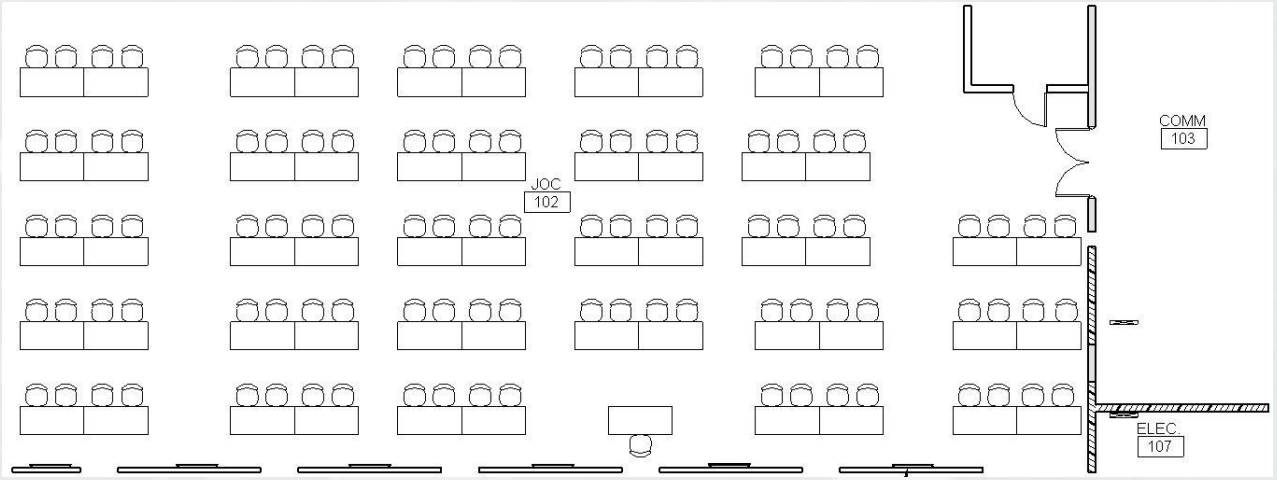


4 bay, 40 PN, $73K

Joint Operations Center

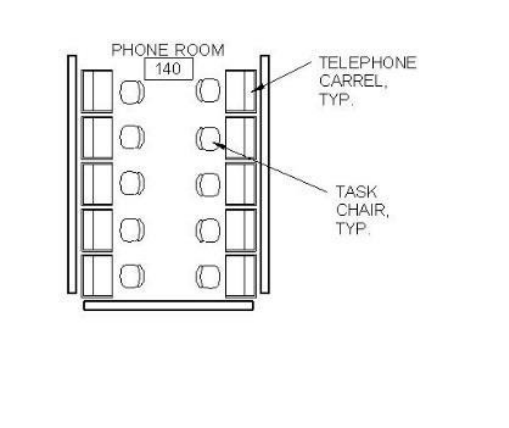


14 bay, Full floor, $214K

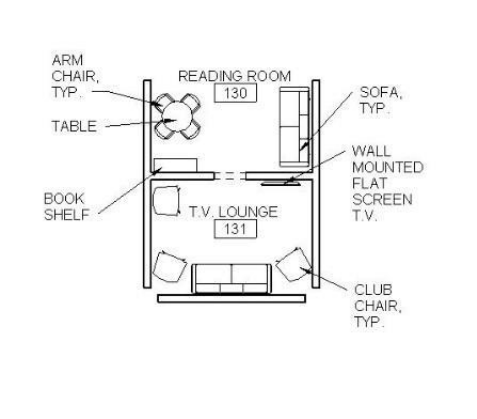


14 bay, Full floor, 109 PN, $201

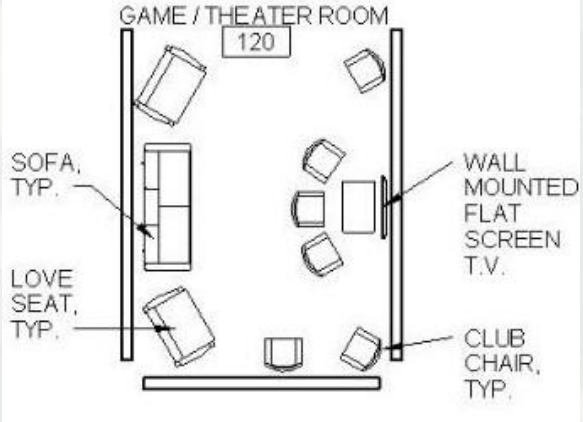
Moral/Welfare/Recreation



$14K

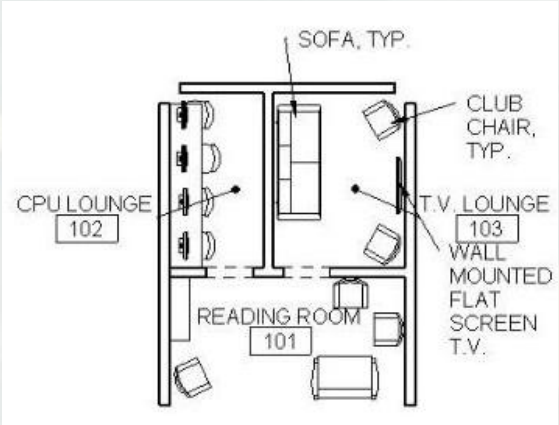


$11K

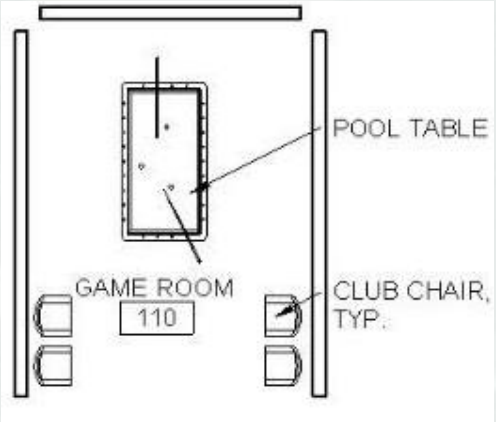


$12K

1 bay each

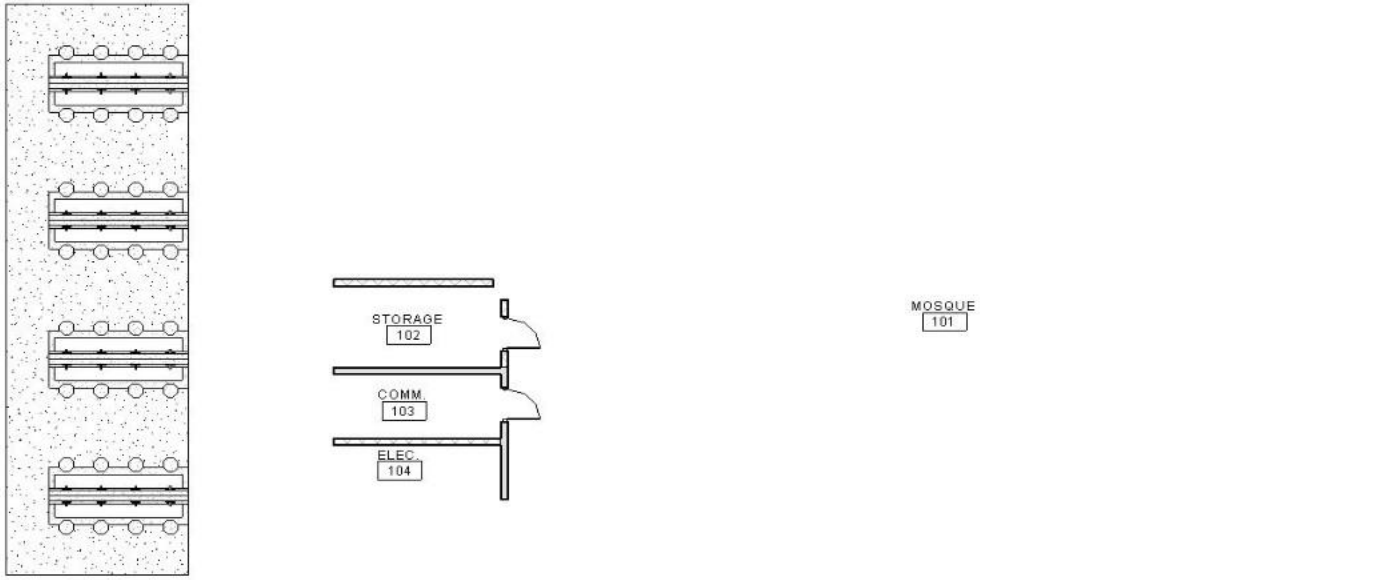


$16K



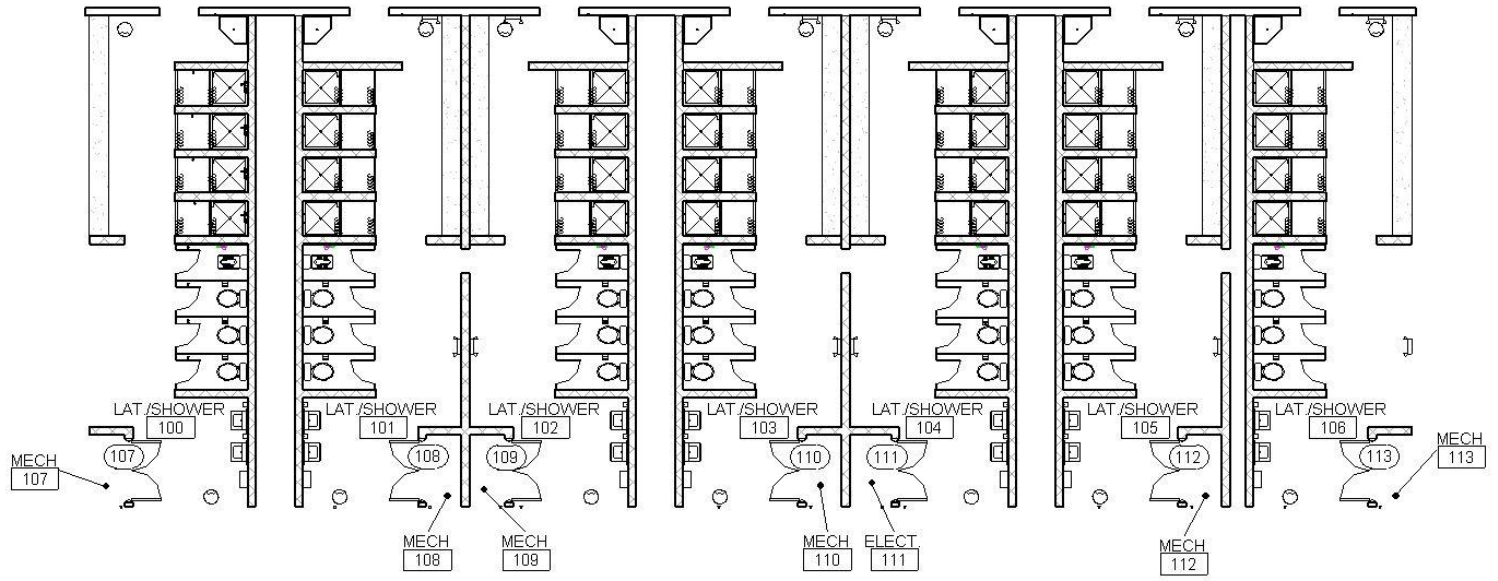
$11K

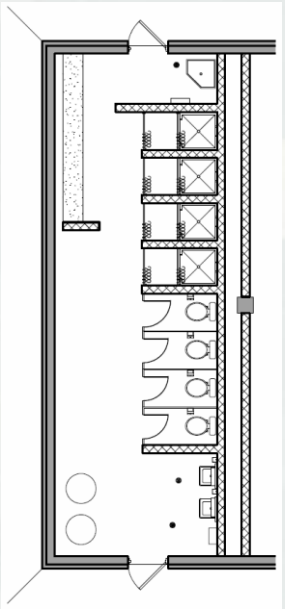
Mosque with outside Ablution



14 bay, full floor

LATRINE/SHOWER

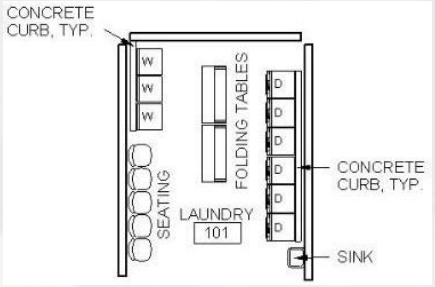




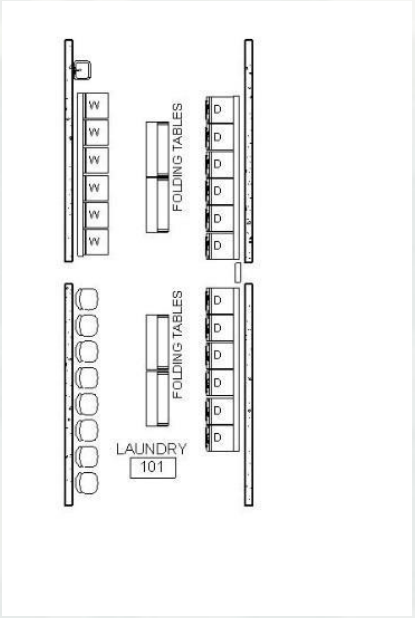
14 bay, full floor

2 bay

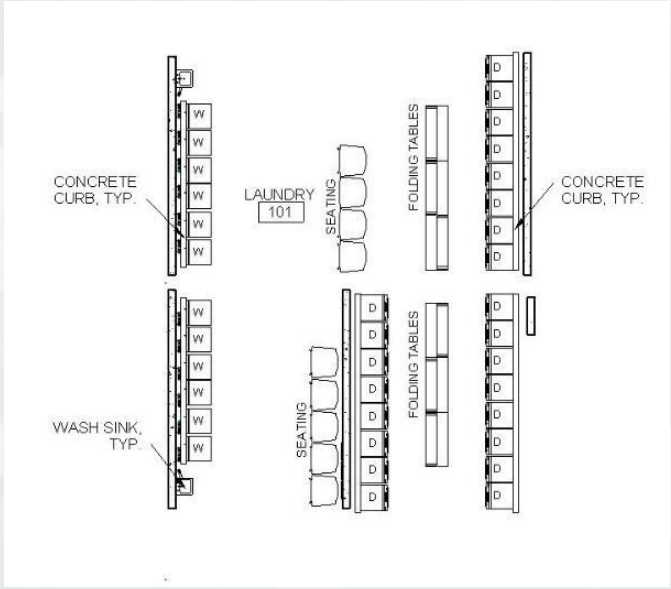
LAUNDRY



1 bay, 75 PN, $52K



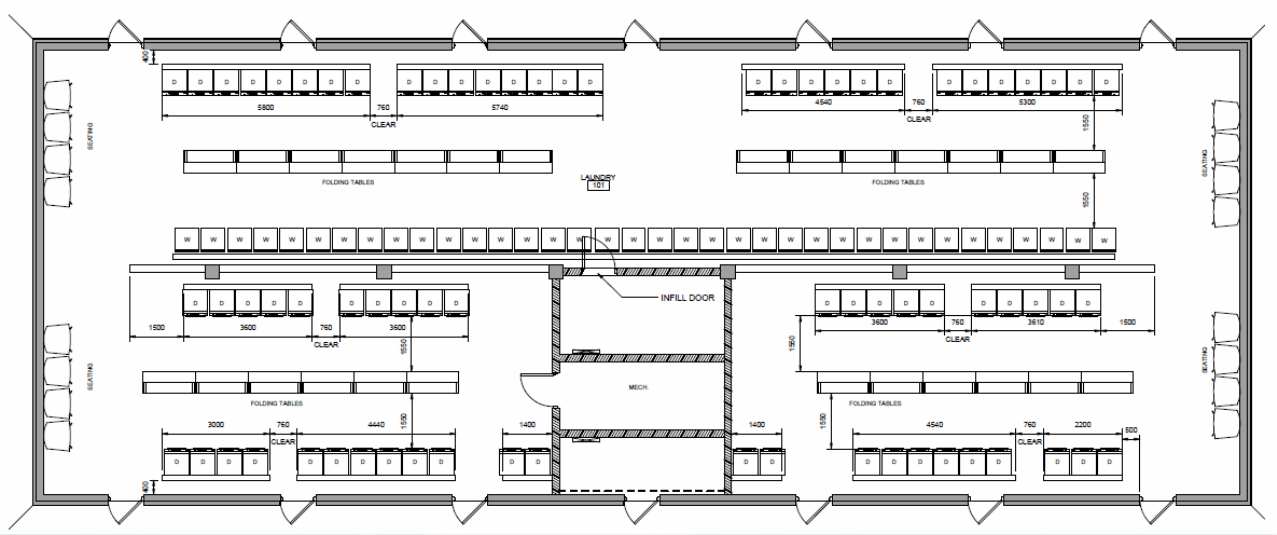
2 bay, 150 PN, $82K



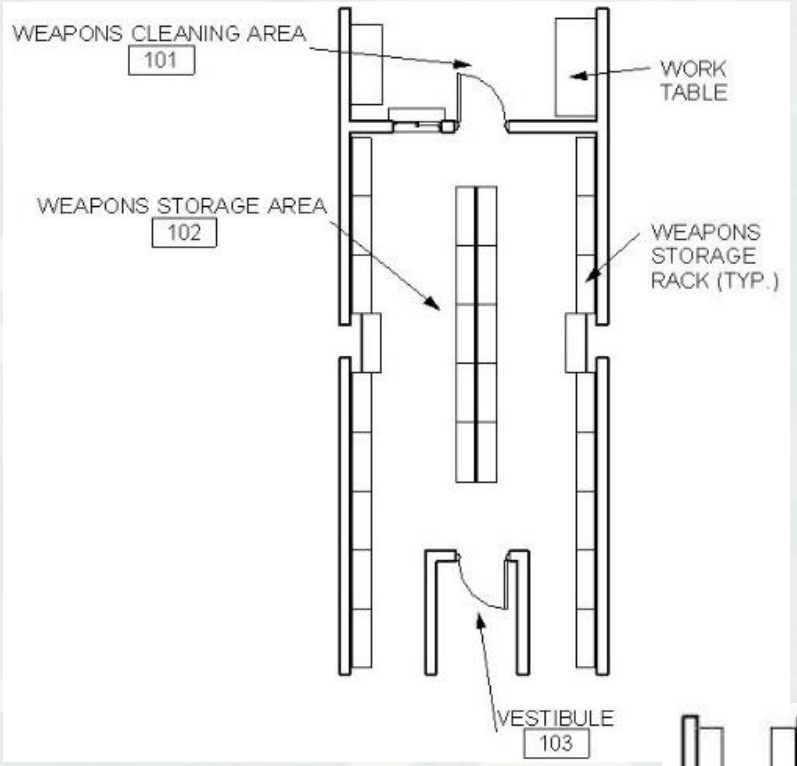
4 bay, 300 PN, $160K

Prices do not include washers/dryers

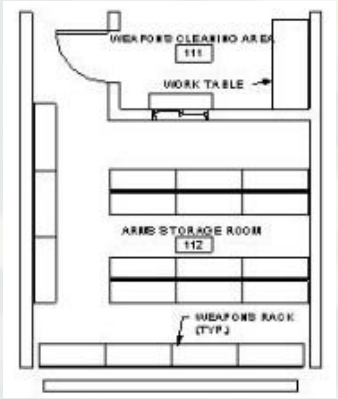
14 bay, full floor, 900 PN, $350K



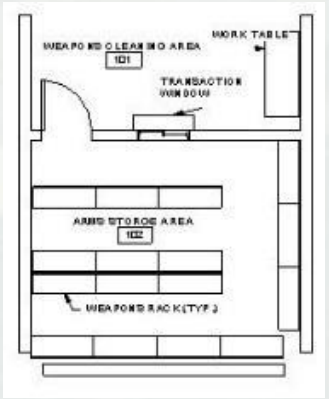
Weapons Storage



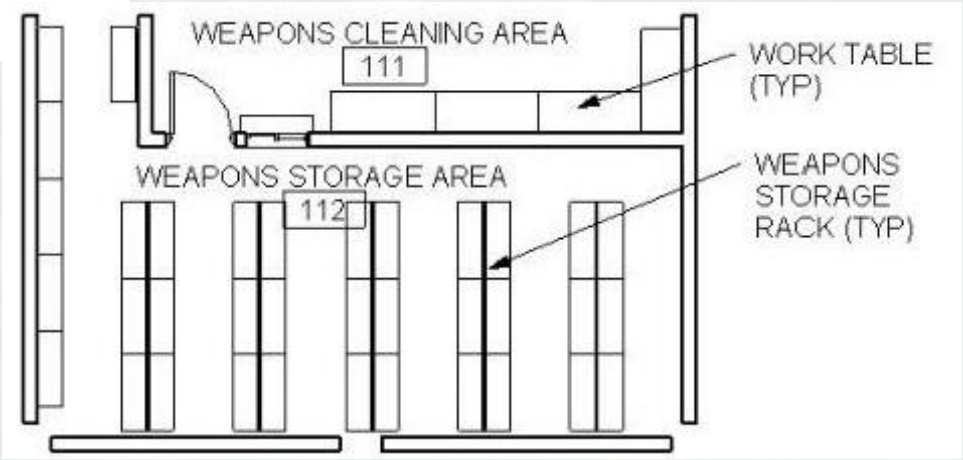
2 bay, $20K



1 bay, $19K



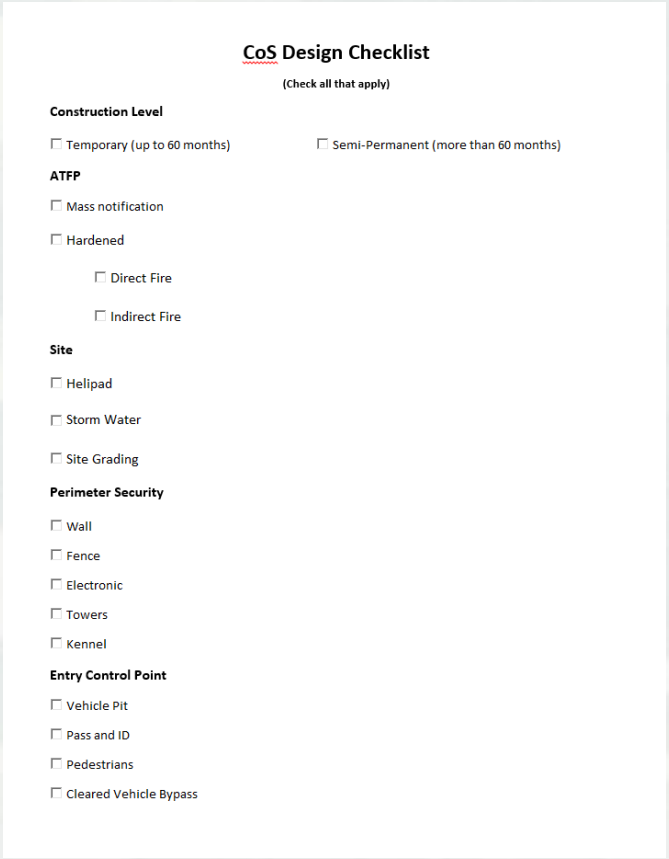
1 bay, $19K



2 bay, $32K

What's next?

1. Fill out the Contingency CoS Checklist and contact Dale or Tara, contact information is on first page.



CoS Design Checklist

(Check all that apply)

Construction Level

☐ Temporary (up to 60 months) ☐ Semi-Permanent (more than 60 months)

ATFP

☐ Mass notification

☐ Hardened

☐ Direct Fire

☐ Indirect Fire

Site

☐ Helipad

☐ Storm Water

☐ Site Grading

Perimeter Security

☐ Wall

☐ Fence

☐ Electronic

☐ Towers

☐ Kennel

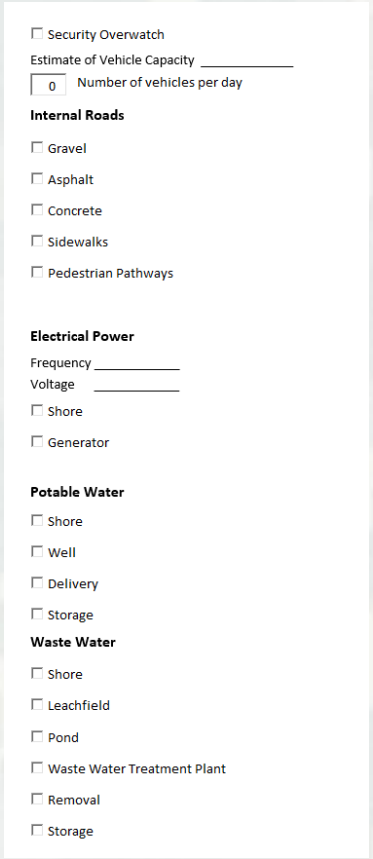
Entry Control Point

☐ Vehicle Pit

☐ Pass and ID

☐ Pedestrians

☐ Cleared Vehicle Bypass



☐ Security Overwatch

Estimate of Vehicle Capacity _____

0 Number of vehicles per day

Internal Roads

☐ Gravel

☐ Asphalt

☐ Concrete

☐ Sidewalks

☐ Pedestrian Pathways

Electrical Power

Frequency _____

Voltage _____

☐ Shore

☐ Generator

Potable Water

☐ Shore

☐ Well

☐ Delivery

☐ Storage

Waste Water

☐ Shore

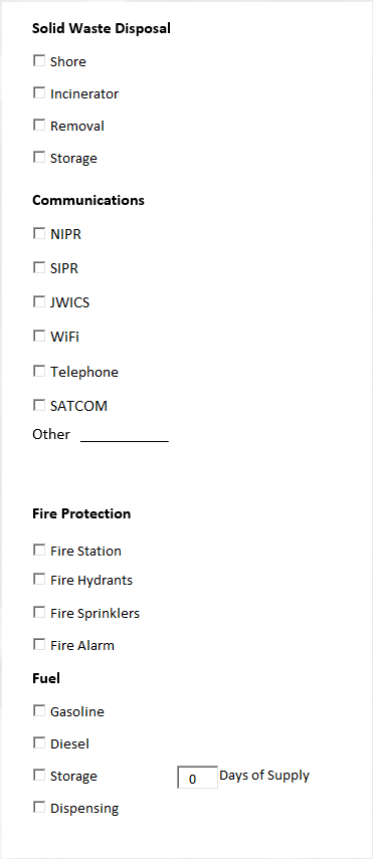
☐ Leachfield

☐ Pond

☐ Waste Water Treatment Plant

☐ Removal

☐ Storage



Solid Waste Disposal

☐ Shore

☐ Incinerator

☐ Removal

☐ Storage

Communications

☐ NIPR

☐ SIPR

☐ JWICS

☐ WiFi

☐ Telephone

☐ SATCOM

Other _____

Fire Protection

☐ Fire Station

☐ Fire Hydrants

☐ Fire Sprinklers

☐ Fire Alarm

Fuel

☐ Gasoline

☐ Diesel

☐ Storage 0 Days of Supply

☐ Dispensing