SMALL ARMY COMMUNITY SERVICE CENTER

SCALE: 1/8" = 1'-0"

TOTAL AREA: 4,130 SQ. FT.

FIGURE 7.1 - STANDARD DESIGN - SMALL FLOOR PLAN.

GENERAL NOTES

1. FOR ARCHITECTURAL ACRONYMS SEE DWG A-001.
2. FIRE RESISTANCE REQUIREMENTS SHALL BE FOR TYPE V CONSTRUCTION THROUGHOUT PER IBC 2000 SPRINKLER AND FIRE ALARMS.
3. BUILDING IS Fully HEATED, VENTILATED AND AIR CONDITIONED TO REQUIREMENTS IN SPECIFICATIONS.
5. FINISH MATERIALS SHALL BE AS SPECIFIED IN SPECIFICATIONS AND FINISH SCHEDULE.
6. OUTSIDE DWG MATERIALS SHALL BE IN ACCORDANCE WITH SPECIFICATIONS.
7. PROVIDE SOUND INSULATING TILE WITH MINIMUM 24 DECIBELS. ALL CONSTRUCTION WALLS SHALL BE SOUND SEALED WITH SOUND SEALS.
8. PLACE ELECTRICAL MUDS ON CONSTRUCTION CAN BE USED OPTIONAL AS MEANS OF CONSTRUCTION.
9. THIS FLOOR DESIGN IS A MANDATORY ELEMENT OF THE RFP PACKAGE. HOWEVER THE STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL PORTIONS ARE RECOMMENDED DESIGN SOLUTIONS BEST SUITED FOR A FACILITY LOCATED IN THE SOUTHEAST REGION OF THE UNITED STATES.
10. SUBMIT SHOP DRAWINGS FOR APPROVAL.
CODE COMPLIANCE SUMMARY

1. THIS IS A LIFE SAFETY DESIGN GUIDE.
2. IBC 2006 OCCUPANCY CLASSIFICATION:
   THE COMMUNICATIONS, ELECTRICAL AND MECHANICAL ROOMS ARE
   INCIDENTAL TO THE ACS FACILITY AND THEREFORE CLASSIFIED
   BUSINESS OCCUPANCY.

<table>
<thead>
<tr>
<th>OCCUPANCY</th>
<th>IBC 2006</th>
<th>NFPA 2003</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFFICES &amp; CORRIDORS (B PROFESSIONAL SERVICES)</td>
<td>B</td>
<td>B</td>
</tr>
<tr>
<td>COMPUTER ROOM (E EDUCATIONAL PURPOSES)</td>
<td>E</td>
<td>E</td>
</tr>
</tbody>
</table>

3. CONSTRUCTION TYPE (SEE IBC TABLES 503 AND 602):
   A) TYPE IIA CONSTRUCTION: SPRINKLERED.
   B) BEARING WALLS: NO RATING REQUIRED PER TABLE 601.
   C) NON-BEARING WALLS:
      INTERIOR: NO RATING REQUIRED UNLESS WITHIN 30 FT SEPARATION
      PER IBC TABLE 602.
   D) STRUCTURAL FRAME:
      NO RATING REQUIRED.
   E) CORRIDORS:
      NO RATING REQUIRED.
   F) ROOF SYSTEM, INCLUDING SUPPORT BEAMS & JOISTS:
      NO RATING REQUIRED PER IBC TABLE 601.
   G) FLOOR SYSTEM, INCLUDING SUPPORT BEAMS & JOISTS:
      NO RATING REQUIRED PER IBC TABLE 601.
   H) EXTERIOR DOORS & WINDOWS:
      NO RATING REQUIRED EXCEPT SEE IBC TABLE 601, 602 AND 715.3.

4. BUILDING HEIGHT (SEE IBC TABLE 503):
   A) ALLOWABLE BUILDING HEIGHT: 4 STORIES, 55 FEET
   B) ACTUAL BUILDING HEIGHT: APPROX 32 FEET

5. BUILDING AREA (SEE IBC TABLE 503):

6. TRAVEL DISTANCES REQUIREMENTS:
   NFPA 101 SECTIONS 32.2.6.3 AND 38.2.6.2 REQUIRE MAXIMUM LENGTH
   OF TRAVEL TO AN EXIT TO BE
   200 FT FOR UNSPRINKLERED AND 300 FT SPRINKLERED FOR NEW BUSINESS
   OCCUPANCY.

<table>
<thead>
<tr>
<th>OCCUPANCY</th>
<th>NFPA 101</th>
<th>TRAVEL DISTANCE LIMIT TO EXIT (SPRINKLERED)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B BUSINESS</td>
<td>32.2.6.3</td>
<td>200 FT</td>
</tr>
<tr>
<td>E EDUCATIONAL</td>
<td>38.2.6.2</td>
<td>N/A</td>
</tr>
<tr>
<td>A-3 ASSEMBLY</td>
<td>32.2.6.1</td>
<td>200 FT</td>
</tr>
<tr>
<td>EDUCATIONAL</td>
<td>38.2.6.2</td>
<td>N/A</td>
</tr>
</tbody>
</table>

7. SEPARATIONS:
   ELECTRICAL ROOM IS SEPARATED FROM OTHER SPACES WITH 2 HOUR FIRE
   RATED CONSTRUCTION PER IBC 2006 PARAGRAPH 302.1.
   MECHANICAL ROOM IS SEPARATED FROM OTHER SPACES WITH 2 HOUR FIRE RATED
   CONSTRUCTION PER IBC 2006 PARAGRAPH 302.1.
Figure 7.3 - Small ESS Diagram

Electronic Security System - Small Size Facility

Journal Notes:
1. All alarm signals will report to the facility security desk and to the alarm monitoring and entry system.
2. A DURRRELL panel is located on the receptionist desk.
3. A wireless DURRRELL switch is located in the director's office.
4. Two ESS panels are located in the communication closet.
5. Access points switches are located in the main entrances.
6. The CCTV STANDALONE SURVEILLANCE System is monitored at the receptionist desk.
7. The CCTV camera location will be determined based on camera calculations.
8. Access points switches are located on the nonsecure side.

General Notes:
- CCTV Camera Domes
- Motion Detectors
- Card Reader
- ARM/DISARM Card Reader
- Alarm Monitor Door
- DURRRELL Button
- ESS Panel

Legend:
- EFD No.
- SPEC. No.
- CONSTR. CONTR. No.
- SHEET
- STA. PROJECT NO.
- ARMY DRAWING NO.

EXHIBIT A-3
GENERAL NOTES
1. FOR ARCHITECTURAL ACRONYMS SEE DWG A-001.
2. FIRE RESISTANCE REQUIREMENTS SHALL BE FOR TYPE V
CONSTRUCTION THROUGHOUT PER IBC 2000 AND FIRE ALARMS.
3. BUILDING IS FULLY HEATED, VENTILATED, AND AIR CONDITIONED
TO REQUIREMENTS IN SPECIFICATIONS.
4. BUILDING SHALL BE PROXED WITH AUTOMATIC FIRE PROTECTION
SYSTEM PER URC 3-600-02 AND IBC 2000.
5. FINISH MATERIALS SHALL BE AS SPECIFIED IN SPECIFICATIONS AND FINISH SCHEDULE.
6. GUTTERS AND DOWNSPOUTS SHALL BE IN ACCORDANCE WITH SMACNA.
7. PROVIDE SOUND INSULATED WALLS WITH MINIMUM STC 45. ALL PERIMETER WALLS
SHALL BE SOUND SEALED WITH SOUND DEADENING WRAP.
8. PRE-ENGINEERED MODULAR CONSTRUCTION CAN BE USED AS MEANS OF CONSTRUCTION.
9. THIS FLOOR DESIGN IS A MANDATORY ELEMENT OF THE RFP PACKAGE. HOWEVER,
THE STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL PORTIONS OF
THE DESIGN ARE RECOMMENDED DESIGN SOLUTIONS BEST SUITED FOR A FACILITY
LOCATED IN THE SOUTH EAST REGION OF THE UNITED STATES.
10. SUBMIT SHOP DRAWINGS FOR APPROVAL.
FIGURE 7.6 - MEDIUM LIFE SAFETY PLAN.

<table>
<thead>
<tr>
<th>CODE COMPLIANCE SUMMARY:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. THIS IS A LIFE SAFETY DESIGN GUIDE.</td>
</tr>
<tr>
<td>2. ICC 2006 OCCUPANCY CLASSIFICATION:</td>
</tr>
<tr>
<td>THE COMMUNICATIONS, ELECTRICAL AND MECHANICAL ROOMS ARE INCIDENTAL TO THE ACs FACILITY AND THEREFORE CLASSIFIED BUSINESS OCCUPANCY.</td>
</tr>
<tr>
<td>3. CONSTRUCTION TYPE (SEE IBC TABLES 503 AND 602)</td>
</tr>
<tr>
<td>a) TYPES 1B CONSTRUCTION, SPRINKLERED.</td>
</tr>
<tr>
<td>b) BEARING WALLS NO RATING REQUIRED PER IBC TABLE 601.</td>
</tr>
<tr>
<td>c) NON-BEARING WALL INTERIOR NO RATING REQUIRED PER IBC TABLE 601.</td>
</tr>
<tr>
<td>4. BUILDING HEIGHT (SEE IBC TABLE 503)</td>
</tr>
<tr>
<td>a) ALLOWABLE BUILDING HEIGHT: 4 STORIES, 55 FEET</td>
</tr>
<tr>
<td>5. BUILDING AREA (SEE IBC TABLE 503)</td>
</tr>
<tr>
<td>a) ALLOWABLE AREA:</td>
</tr>
<tr>
<td>BUSINESS OCCUPANCY</td>
</tr>
<tr>
<td>IBC 2006</td>
</tr>
<tr>
<td>IBC 2006</td>
</tr>
<tr>
<td>OCCUPANCY</td>
</tr>
<tr>
<td>-</td>
</tr>
<tr>
<td>BUSINESS</td>
</tr>
<tr>
<td>EDUCATIONAL</td>
</tr>
<tr>
<td>6. TRAVEL DISTANCES REQUIREMENTS:</td>
</tr>
<tr>
<td>N/A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CODE COMPLIANCE NOTES:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. UFC 3-600-01 REQUIRES USE OF IBC FOR FIRE RESISTANCE, AND MFPA 101 FOR COHESION.</td>
</tr>
<tr>
<td>2. MAXIMUM OCCUPANCY OF EACH ROOM IS BASED ON MFPA 101 TABLE 7.3.1.2.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OCCUPANCY</th>
<th>MFPA 101</th>
<th>TRAVEL DISTANCE</th>
<th>ACTUAL TRAVEL DISTANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>WITHOUT FIXED SEATING</td>
<td>10,000 S.F.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SEPARATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELECTRICAL ROOM IS SEPARATED FROM OTHER SPACES WITH 2 HOUR FIRE RATED CONSTRUCTION PER IBC 2006 PARAGRAPH 302.1.1.</td>
</tr>
<tr>
<td>MECHANICAL ROOM IS SEPARATED FROM OTHER SPACES WITH 2 HOUR FIRE RATED CONSTRUCTION PER IBC 2006 PARAGRAPH 302.1.1.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CODE ID. NO. XXXXX</th>
<th>SIZE</th>
<th>CONSTRUCTION CONTR. NO.</th>
<th>SPEC. NO.</th>
<th>EFD NO.</th>
<th>SCALE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS-100</td>
<td>824</td>
<td>- - -</td>
<td>- - -</td>
<td>- - -</td>
<td>- - -</td>
</tr>
</tbody>
</table>
GENERAL NOTES:

1. All security devices shall report to the receptionist desk and to the alarm monitoring center.
2. A master panel is located on the receptionist desk.
3. A wireless duress switch is located in the director's office.
4. Two ess panels are located in the communications closet.
5. Access/secure switches are located at the main entrances.
6. The CCTV standalone surveillance system is monitored at the receptionist desk.
7. The CCTV camera location will be determined based on camera calculations.
8. Proximity readers with pins are located on the nonsecure side.

Legend:

- CCTV camera dome
- Card reader
- Access/secure switch
- Alarm monitoring device
- Duress button
- Motion detector
- Card keypad

FIGURE 7.7 - MEDIUM ESS DIAGRAM.
1. For architectural drawings see DWG A-001.
2. Fire resistance requirements shall be for Type V construction per ICC 2000 and UFC 3-600-01.
3. Building is fully heated, ventilated and air conditioned per requirements in specifications.
4. Building shall be provided with automatic fire protection system per UFC 3-600-01 and ICC 2000.
5. Finish materials shall be as specified in specifications and finish schedule.
6. Gypsum and drywall panels shall be in accordance with SMACNA.
7. Provide sound insulated walls with minimum SRI. All partitions shall be sound sealed with sound sealant. All junction boxes in sound walls shall be sound sealed with sound sealing wraps.
8. Pre-Engineered Modular Construction can be used optionally as means of construction.
9. This floor design is a mandatory element of the RFP Package. However, the structural, mechanical, plumbing and electrical portions of the design are recommendations based on the location of the facility in the South East region of the United States.
10. Submit shop drawings for approval.

---

**Figure 7.8 - Standard Design - Large Floor Plan.**

- **Foyer**
- **File Room**
- **Classrooms**
- **Deployment & Mobilization**
- **Operation (SSOs)**
- **Copy / Graphics**
- **Director Office**
- **Admin. Assistant**
- **Conference Room**
- **Office**
- **Public Toilet**
- **Diaper Changing Station**
- **JAN.**
- **Vending Office**
- **Electrical CL. (120 S.F.)**
- **12'x10' SHELF**

**Total Area:** 17,215 SQ. FT.
1. All glass doors shall be fitted to the electronic lock and to the alarm annunciator system.

2. A wireless panic button is located on the receptionist desk.

3. A wireless panic button is located in the director's office.

4. Two ESS panels are located in the communication closet.

5. Access/secure switches are located at the main entrances.

6. The CCTV standalone surveillance system is monitored at the receptionist desk.

7. The CCTV camera location will be determined based on camera calculations.

8. Proximity reader with pins are located on the nonsecure side.

GENERAL NOTES:

- Electronic security system - Large size facility

LEGEND:

- CCTV camera dome
- Motion detector
- Card reader
- Arm/disarm card reader
- Alarm monitor door
- Duress button
- ESS panel

SCALE: 1/8" = 1'-0"
1. OCCUPANCY: GROUP E, THE USE OF A BUILDING FOR EDUCATIONAL, SUPERVISION OR PERSONAL CARE SERVICES FOR MORE THAN 5 CHILDREN OLDER THAN 3 1/2 YEARS (1.25).

DUE TO THE HVAC'S PLENUM DESIGN, COMBUSTIBLE MATERIALS (INCLUDING WOOD FRAMING/BLICKING) ARE NOT ALLOWED.

3. FIRE PREVENTION SYSTEM: AUTOMATIC SPRINKLER SYSTEM

4. MAXIMUM TRAVEL DISTANCE IS 200 FEET.
CODE SUMMARY

I. REFERENCE:
- INTERNATIONAL BUILDING CODE (2009)
- NFPA 101 LIFE SAFETY CODE (2009)
- NFPA 10 PORTABLE FIRE EXTINGUISHERS (2007)
- NFPA 72 NATIONAL FIRE ALARM CODE (2010)
- NFPA 13 FIRE SPRINKLERS SYSTEMS (2010)
- NFPA 10 PORTABLE FIRE EXTINGUISHERS (2007)
- NFPA 101 LIFE SAFETY CODE (2009)
- UFC 3-600-01 FIRE PROTECTION FOR FACILITIES (2009)

II. OCCUPANCY (NB)
- THIS BUILDING IS CLASSIFIED AS MIXED OCCUPANCY (SEC. 508-IBC)
- EDUCATIONAL OCCUPANCY IS SEPARATED. REMAINDER OF BUILDING IS NON-SEPARATED A-3 (ASSEMBLY) AND B (BUSINESS)

III. CONSTRUCTION:
- TYPE IIB NON-COMBUSTIBLE

IV. FIRE SUPPRESSION SYSTEM:
- AUTOMATIC SPRINKLER SYSTEM THROUGHOUT
- HOSPITAL: ROOMS, STORAGE ROOMS: ORDINARY HAZARD GROUP 1, 0.15 GPM/SF @ 3000 SF
- OTHER AREAS: LIGHT HAZARD, 0.10 GPM/SF @ 3000 SF

V. BUILDING SIZE:
- 20,890 S.F. OUTSIDE HEATED AREA

VI. HEIGHT & AREA:
- ALLOWABLE HEIGHT: 3 STORIES, 75' MAX
- ALLOWABLE AREA: 28,500 GSF

VII. MAXIMUM TRAVEL DISTANCE:
- 155 FEET
- 32 FT. 1-5 OCCUPANTS
- COMMON PATH OF TRAVEL LIMIT: 20 FT. 5-10 OCCUPANTS

VIII. MAXIMUM TRAVEL DISTANCE:
- 250 FEET

GENERAL NOTES

1. SEE ELECTRICAL LIGHTING PLANS, SHEETS E-002, E-003, E-004 & E-005 FOR FIRE EXIT SIGN LOCATIONS.

LIFE SAFETY PLAN
- SCALE: 3/32" = 1'-0"
- OVERALL FLOOR PLAN

DEPITEIVE DESIGN SUBMITTAL

FILE: $$$pathname
DATE: $$$DATETIME

*** SAFETY FIRST ***

HUNTSVILLE, ALABAMA
SUPPORT CENTER, ENGINEERING AND U.S. ARMY CORPS OF ENGINEERS

DEPARTMENT OF ENGINEERING
LIFE SAFETY PLAN

JOB NUMBER:
PROJECT:
DATE:
SATELLITE REPORT

DEFINITIVE DESIGN SUBMITTAL
GENERAL NOTES

1. ALL INTERIOR WALL DIMENSIONS ARE FROM FACE OF WALL FINISH TO FACE OF WALL FINISH UNLESS NOTED OTHERWISE.

** SAFETY FIRST **

HUNTSVILLE, ALABAMA
SUPPORT CENTER, ENGINEERING AND U.S. ARMY CORPS OF ENGINEERS
ARMY COMMUNITY EXTRA LARGE SERVICE CENTER (ACS)

SCALE: 3/16" = 1'-0"

PARTIAL FLOOR PLAN - AREA "C"

KEY PLAN

MATCHLINE - A

MATCHLINE - B

MATCHLINE - C

FILE: $$$$pathname
DATE: $$$$DATETIME

PART 105

CLASSROOM
BREAK
ELECT
KITCHEN
TOILET
PANTRY
MECH
ELECT
144
143
142
141
139
138
137
140
141
142
143
144

PLAN
SCALE: 3/16" = 1'-0"

PARTIAL FLOOR PLAN - AREA "C"

SCALE: 3/16" = 1'-0"