



ILLUSTRATIVE FIRST FLOOR PLAN - "I-SCHEME"



ILLUSTRATIVE FLOOR PLAN

- These plans illustrate a 96 unit VOQ with 12 Short Term living unit modules, 12 Long Term living unit modules, and the mandatory support modules.
- The plans on sheets V-12 and V-13 illustrate a three story, "I-scheme" configuration.
- The total gross building area for the building as shown is approximately 54,625 square feet. An example on programming a VOQ facility is given below.

PROGRAMMING EXAMPLE

- The following example illustrates how to program a VOQ facility. This example is for the 96 unit VOQ shown on sheets V-10 and V-11. Incorporation of optional modules, not shown on these drawings, is also explained in this example.
- All percentages and gross areas per living unit module are given on sheet V-2 of this definitive design.

LIVING UNIT MODULES:

- To determine the total number of living unit modules in a VOQ, and the total area required for the living units, perform the following calculations.
 - # of Short Term modules = # of Short Term units + 4
 - # of Long Term modules = # of Long Term units + 4
 - 48 Short Term units + 4 = 12 Short Term Modules**
 - 48 Long Term units + 4 = 12 Long Term Modules**
- Area of Short Term modules = # of Short Term living unit modules X gross area per module
- Area of Long Term modules = # of Long Term living unit modules X gross area per module
- 12 Short Term modules X 1,460 sq. ft. per module = **17,520 sq. ft. Short Term modules**
- 12 Long Term modules X 2,250 sq. ft. per module = **27,000 sq. ft. Long Term modules**
- Add these numbers together to obtain the total area required for the living unit modules.
- TOTAL (living unit modules) = 44,520 sq. ft.**

SUPPORT MODULES:

- Mandatory modules are listed below, and must be added to the total living unit module area obtained above. The figures below indicate gross square footage, which includes the walls.
 - Core Area Module = 11.5% of total living unit module area
 - Multi-Purpose Activity Room Module = 3.5% of total living unit module area
 - Mechanical Services Module = 5% of total living unit module area
 - 11.5% X 44,520 = **5,120 sq. ft. Core Area**
 - 3.5% X 44,520 = **1,559 sq. ft. MPAR**
 - 5% X 44,520 = **2,226 sq. ft. Mechanical**
- Stair Module = 200 square feet per floor for each enclosed stair, or 100 square feet per floor for each open or unenclosed stair.
 - 200 s.f. (enclosed stair) X 3 floors + 2 X [100 s.f. (unenclosed stair) X 3 floors] = **1200 sq. ft. stairs**
- Add these numbers together to obtain the total area required for the mandatory support modules.
- TOTAL (mandatory modules) = 10,105 sq. ft.**
- Optional modules must be added to the total living unit module area obtained above when they are required in the facility. For the purposes of this programming example, we will include a minimum size Office Module, a Bulk Storage Module, and a Transition Module that allows for a 15' offset in the site.

Symbol	Description	Date	Approved

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U.S. ARMY ENGINEER DISTRICT
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FACILITIES STANDARDIZATION PROGRAM
VISITING OFFICER QUARTERS

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"I-SCHEME"**

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Chief, Arch. Sec.	Sheet 12 of 20		