

Office Module = 1% of the total living unit module area
 Bulk Storage Module = 3.5% of total living unit module area
 Transition Module = whatever is required
 $1\% \times 44,520 = 445 \text{ sq. ft. Office Module}$
 $3.5\% \times 44,520 = 1,559 \text{ sq. ft. Bulk Storage}$
 $(15' \text{ long} + 5' \text{ for corridor width} + 2'-4" \text{ for wall thickness}) \times (5' \text{ wide} + 2'-4" \text{ for wall thickness}) \times 3 \text{ floors} = 491 \text{ sq. ft. Transition Module}$
 Add these numbers together to obtain the total area required for the desired optional support modules.
TOTAL (optional modules) = 2,495 sq. ft.

FINAL TOTAL GROSS BUILDING AREA
 • To determine the final total gross building area, add the area for the living unit modules, the mandatory support modules, and any optional support modules together.
TOTAL = Living unit modules + Mandatory modules + Optional modules
 $44,520 \text{ s.f. living unit modules} + 10,105 \text{ s.f. mandatory modules} + 2,495 \text{ s.f. optional modules} =$
57,120 SQUARE FEET TOTAL GROSS BUILDING AREA

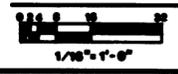
DIMENSIONS
 • The length of the residential wings varies depending on the number of living unit modules provided. Below is a chart that gives the approximate lengths depending on the number and type of module. These dimensions include an allowance for an exterior wall on one end, and an interior wall on the other.

# of modules	Short Term	Long Term
1	30'-4"	46'-4"
2	59'-8"	91'-8"
3	89'-0"	137'-0"
4	118'-4"	182'-4" (A)
5	147'-8"	227'-8"
6	177'-0" (A)	273'-0" (B)
7	206'-4"	-----
8	235'-8"	-----
9	265'-0"	-----
10	294'-4" (B)	-----

(A) Maximum corridor length in buildings without sprinkler systems. (NFPA-101)
 (B) Maximum corridor length in buildings with an approved automatic sprinkler system in the exit access and tributary areas, or throughout, and separated by 1 hour construction in buildings of three or fewer floors, or by 2 hour construction in buildings over three floors. (NFPA-101)

• The width of the residential wings will vary between 49'-0" and 50'-0" depending on the corridor width used. Exterior wall construction will not affect building width.
 • Dimensions of the support modules vary significantly and are dependent on the layout of this area in the final design.

ILLUSTRATIVE SECOND AND THIRD FLOOR PLAN - "L-SCHEME"



Symbol	Description	Date	Approved

• THINK VALUE ENGINEERING - IT SAVES MONEY •

U. S. ARMY ENGINEER DISTRICT
 CORPS OF ENGINEERS
 TULSA, OKLAHOMA

DESIGNED BY: Jay Clark
 DRAWN BY: Jay Clark
 CHECKED BY: T. H. Verdel
 SUBMITTED BY: T. H. Verdel
 Chief, Arch. Sec.

FACILITIES STANDARDIZATION PROGRAM
 VISITING OFFICER QUARTERS
 ILLUSTRATIVE SECOND AND THIRD FLOOR PLAN - "L-SCHEME"

Scale: AS SHOWN
 Date: NOVEMBER, 1988
 Dwg. code: DEF 724-15-01

Sheet Reference number: JUL 88
 V-II
 Sheet II of 20