

one and one half inches = one foot  
one inch = one foot  
three quarters inch = one foot  
one half inch = one foot  
one quarter inch = one foot  
one eighth inch = one foot

A

B

C

D

E

F

A

B

C

D

E

F

## CODE REVIEW:

- GOVERNING CODES:
- 2009 International Building Code
  - 2009 International Mechanical Code
  - 2009 International Electrical Code
  - 2009 International Plumbing Code
  - 2003 International Energy Code
  - NFPA National Fire Codes including NFPA 101 Life Safety Code (2012)
  - VA Design Guidelines and Manuals
  - 6th Edition of the Department of Veterans Affairs Fire Protection Design Manual
  - VA Barrier Free Design Guidelines

OCCUPANCY:  
Use Group Classification: I-2(IBC); New Healthcare (NFA 101)

CONSTRUCTION TYPE:  
IIA Fully Sprinklered (IBC); II-1,1,1 (NFA 101)

Fire Resistance Rating of Structural Elements: I-2 Occupancy IIA Const.

Structural Frame:	1 hour	UL# X528
Columns:		
Exterior Walls:	1 hour	N/A
Loadbearing:	1 hour	N/A
Non-Loadbearing:	0 hour	N/A
Interior Walls:	1 hour	N/A
Loadbearing:	1 hour	N/A
Non-Loadbearing:	0 hour	N/A
Fire Wall:	2 hour	UL# U419
Shafts and Hoistways (707.4):	1 hour	UL# U905, U415
Floor/Ceiling Assembly:	1 hour	UL# D780
Roof/Ceiling Assembly:	1 hour	UL# P733

Allowable Height and Building Areas (Table 503) for I-2 Occupancy IIA Const.

Allowable Height & Area -	2 Story, 15,000 SF/Floor
Area Modifications:	
Sprinkler Increase	+1 Story, +15,000 Square Feet
Open Perimeter Increase	Not Utilized
Total Allowable Area	30,000 Square Feet

Actual Building Areas:

Household Building: 1st Floor	14,576 Square Feet
Household Building: 2nd Floor	13,172 Square Feet
Connector Building:	4,797 Square Feet

Total Area: 32,545 Square Feet

Total Height:	2 Story
Household Building	1 Story
Connector	

No. of Occupants:	
Residents:	24 Occupants
Employees:	14 Occupants
Total:	38 Occupants

Travel Distance	
Maximum Travel Distance (Fully Sprinklered)	200'-0"
Dead End	20'-0" MAX.

Required Egress Width:	
Means of Egress Min. Calculated Width:	7.6" (MIN. 96")
Means of Egress Width Provided:	176"
Number of Exits Provided:	4

General Note:  
All corridor partitions and others for the control of smoke, shall be sealed smoke tight around penetrations, at floors and decks. Gypsum wall board on corridor partitions and partitions for controlling smoke shall extend from finish concrete floor to deck above or gypsum membrane at bottom chord of trusses.

## Legend:

- = 1 HOUR FIRE RATED BARRIER
- = 1 HOUR FIRE RATED SMOKE BARRIER
- - - - - = 0 HOUR SMOKE PARTITION (IBC)
- - - - - = 0 HOUR CORRIDOR SMOKEWALL (NFA101)
- = 2 HOUR FIRE RATED BARRIER
- X'-0" = TRAVEL DISTANCE
- EXIT = BUILDING EXIT
- FE = FIRE EXTINGUISHER W/ RECESSED WALL MOUNTED CABINET
- EXIT SIGN = EXIT SIGN
- X'X' = AREA REQUIRED TO BE MAINTAINED AS CLEAR PATH OF TRAVEL

BID DOCUMENTS  
FULLY SPRINKLERED

## LIFE SAFETY PLAN - SECOND FLOOR

SCALE 3/32" = 1'-0"

2/GI-102

2/GI-102

1/GI-102

1/GI-102

118'-4" PATH OF TRAVEL

1-HOUR RATED EXTERIOR WALLS, TYP.

1 HOUR SMOKE BARRIER

DOUBLE ACTING (20 MIN)  
AUTOMATIC CLOSING DOORS  
ON HOLD OPEN DEVICES  
(SMOKE COMPARTMENT DOORS)

REMOTE POINT OF TRAVEL

8 FT. CLEAR TRAVEL PATH

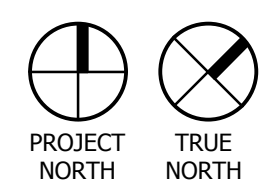
2 HR. FIRE BARRIER  
(PER NFPA 101)

123'-6" PATH OF TRAVEL

106'-8" PATH OF TRAVEL

## LIFE SAFETY PLAN- SECOND FLOOR

SCALE 3/32" = 1'-0"



Revisions:		Date:		CONSULTANTS:				ARCHITECT/ENGINEERS:		Drawing Title LIFE SAFETY PLANS		Project Title RELOCATE DEMENTIA UNIT		Project Number VA PN 613-107		Office of Construction and Facilities Management 			
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												Date 8/6/2012		Checked Checker				Drawn Author	
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