

# Life Safety Plans : Symbols and Code ADVANCED

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Member of the Florida Building Commission

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on

**Fire Safety and Emergency Symbols**

1985-present

**Chairman 2005-2015**

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# Life Safety Plans : Symbols and Code

## ADVANCED

Using the symbol's from  
National Fire Protection Association's

**NFPA 170**

Standard for Fire Safety and Emergency Symbols

170

NFPA® 170  
Standard for  
Fire Safety  
and Emergency  
Symbols  
2015 Edition

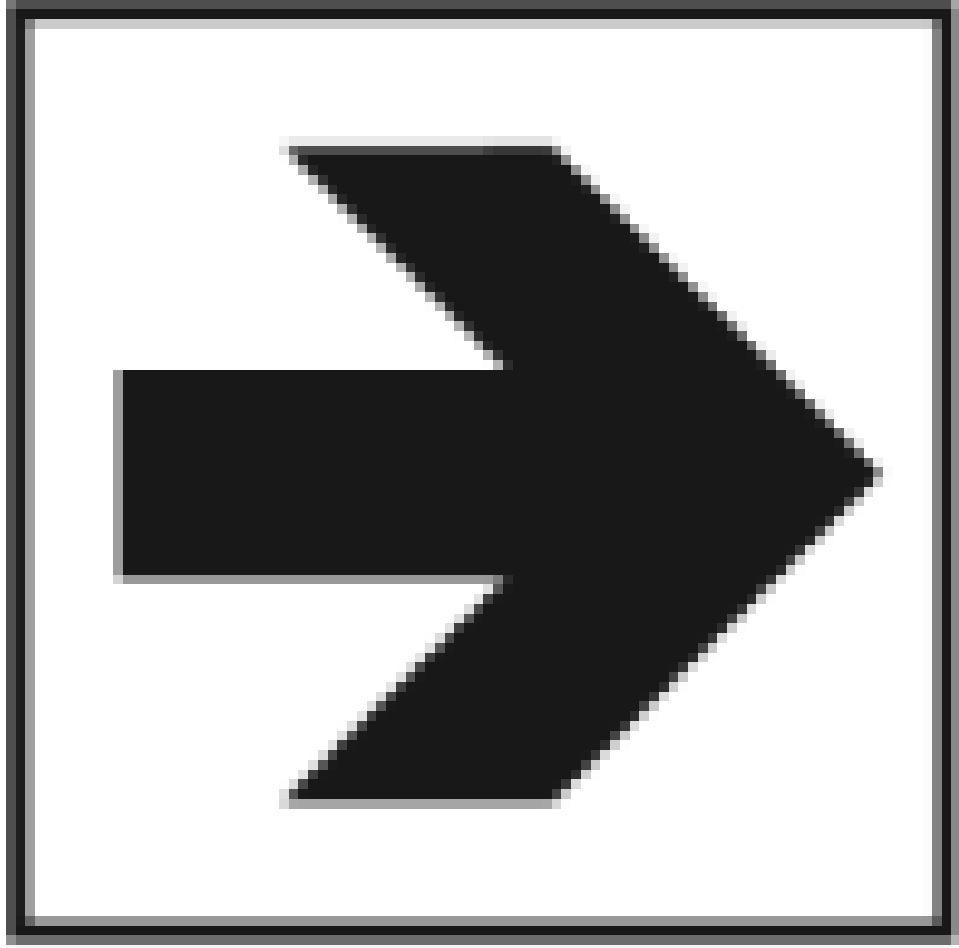


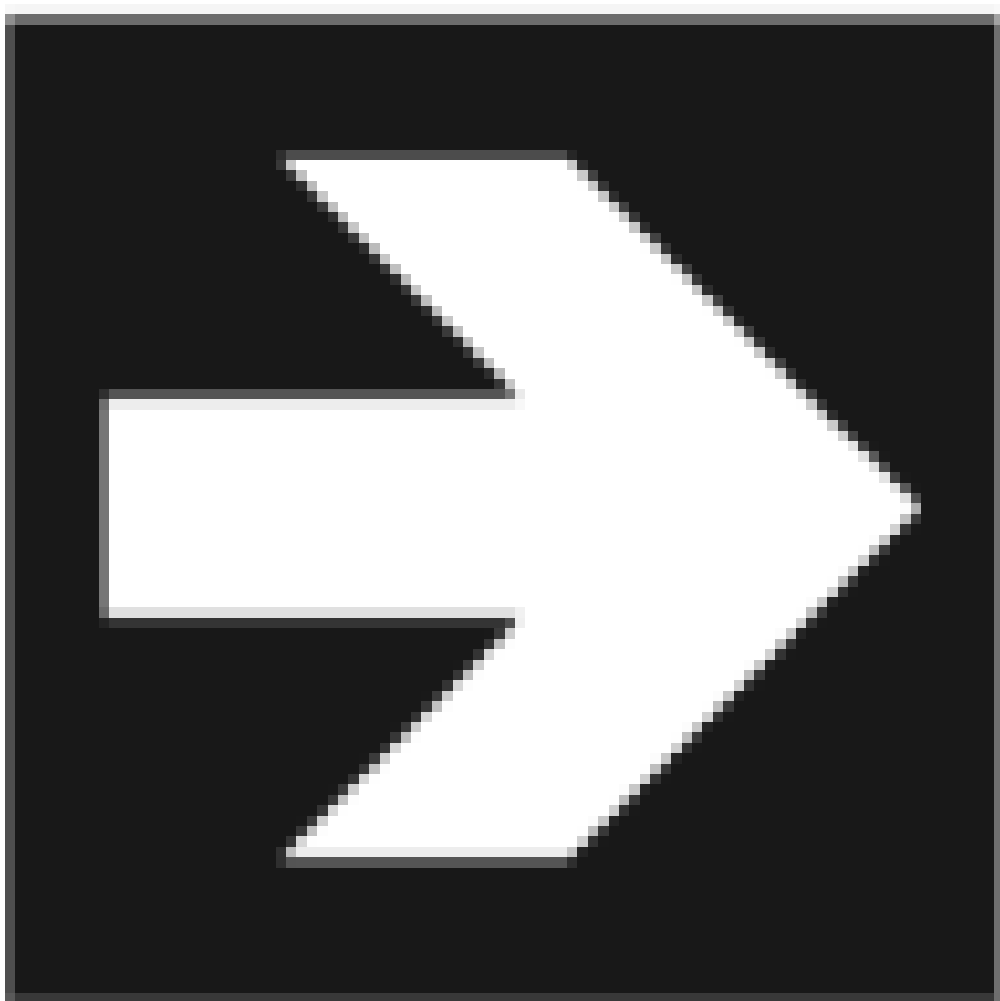
NFPA, 1 Batterymarch Park, Quincy, MA 02169-7471, USA  
An International Codes and Standards Organization

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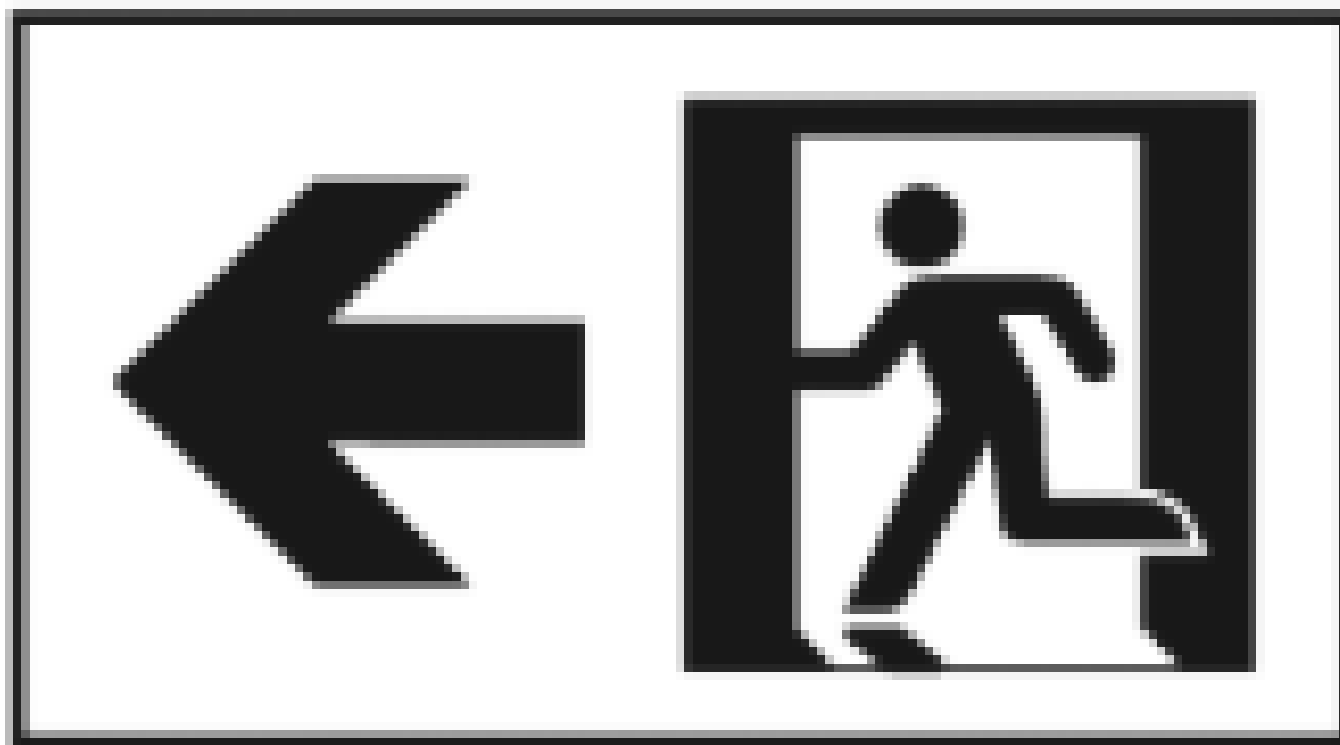


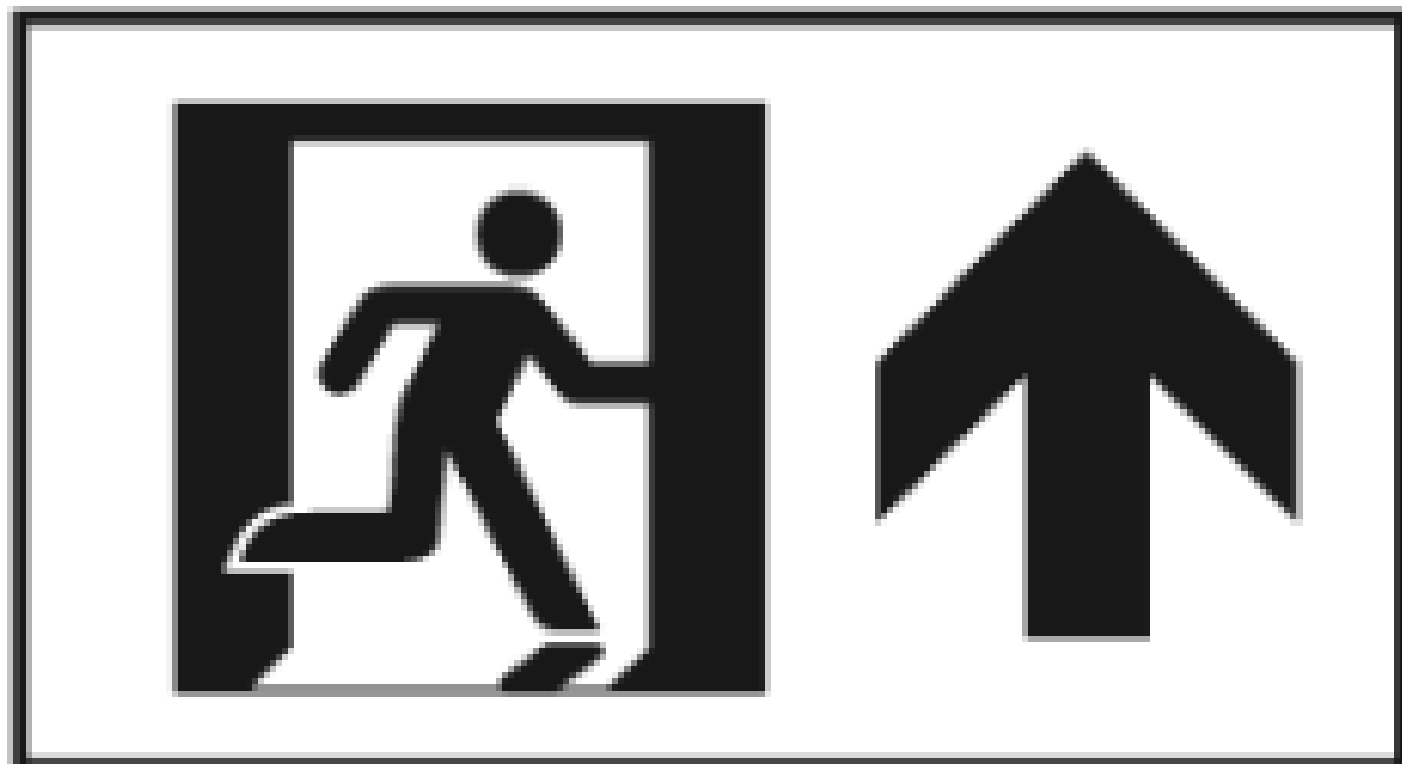














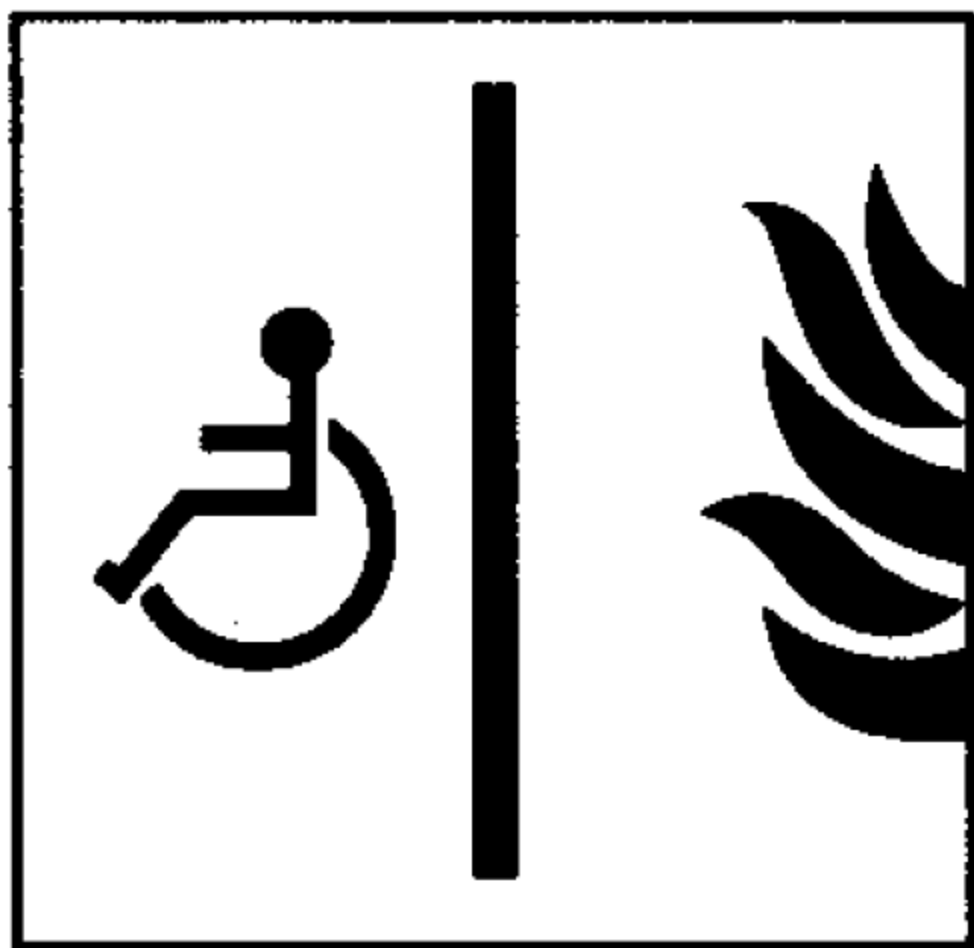












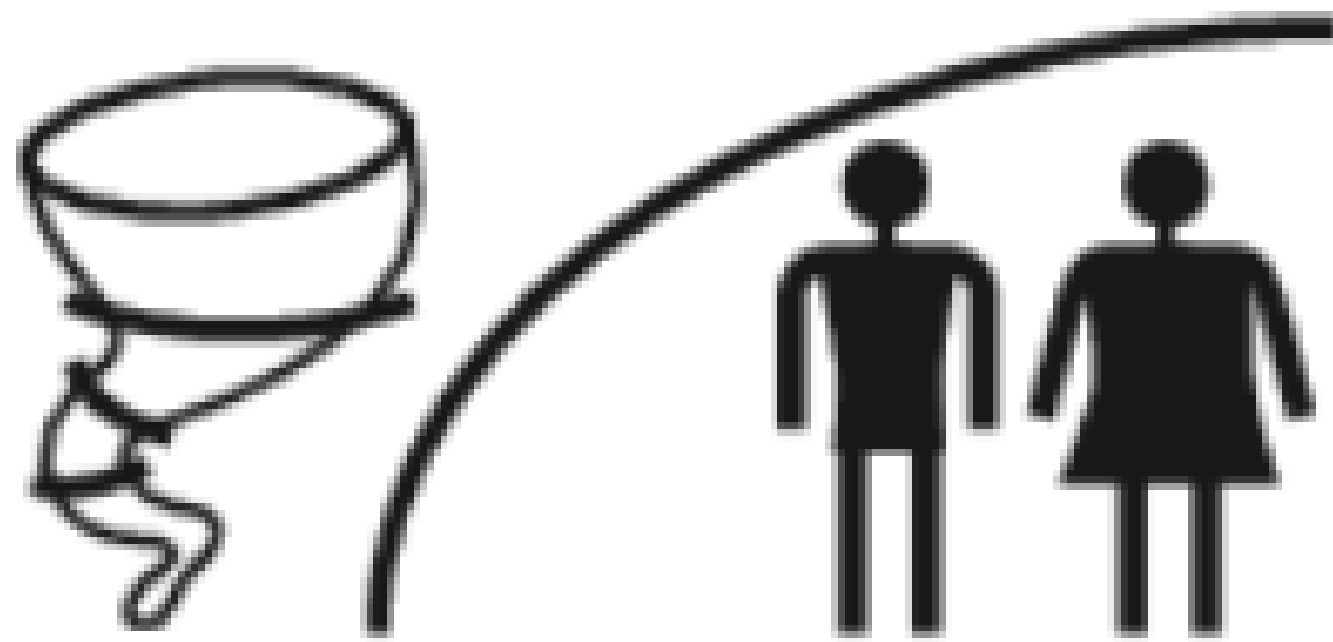






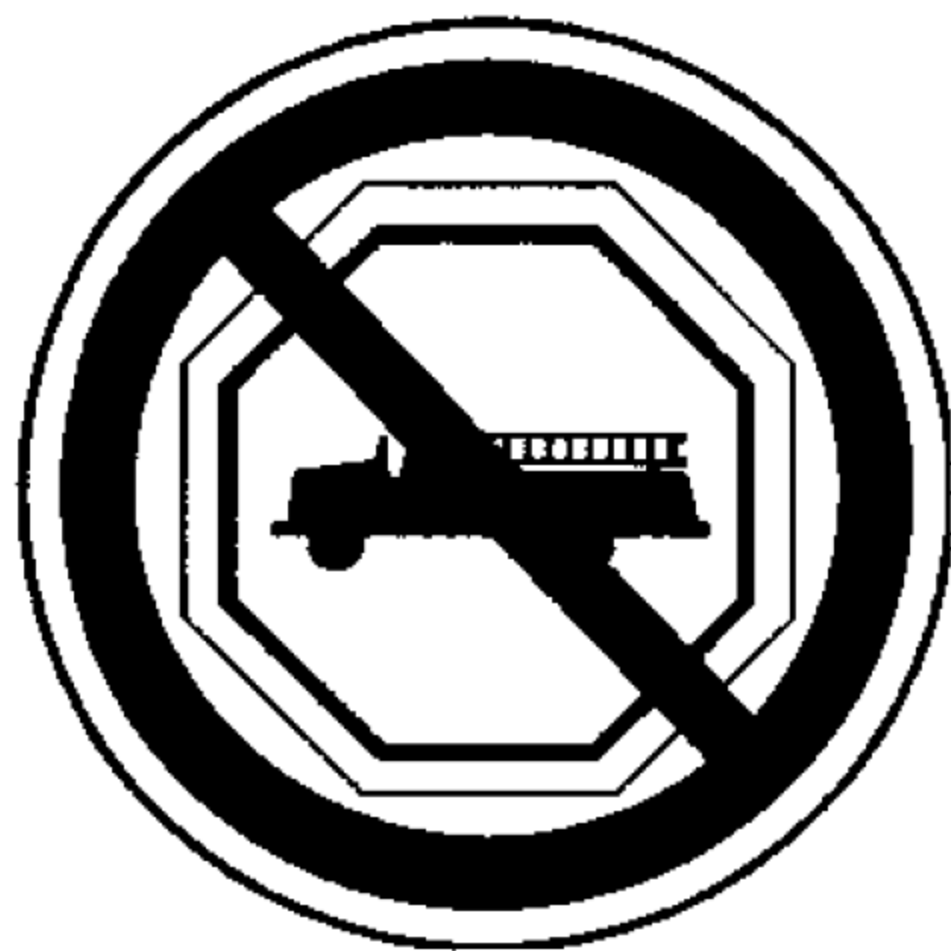














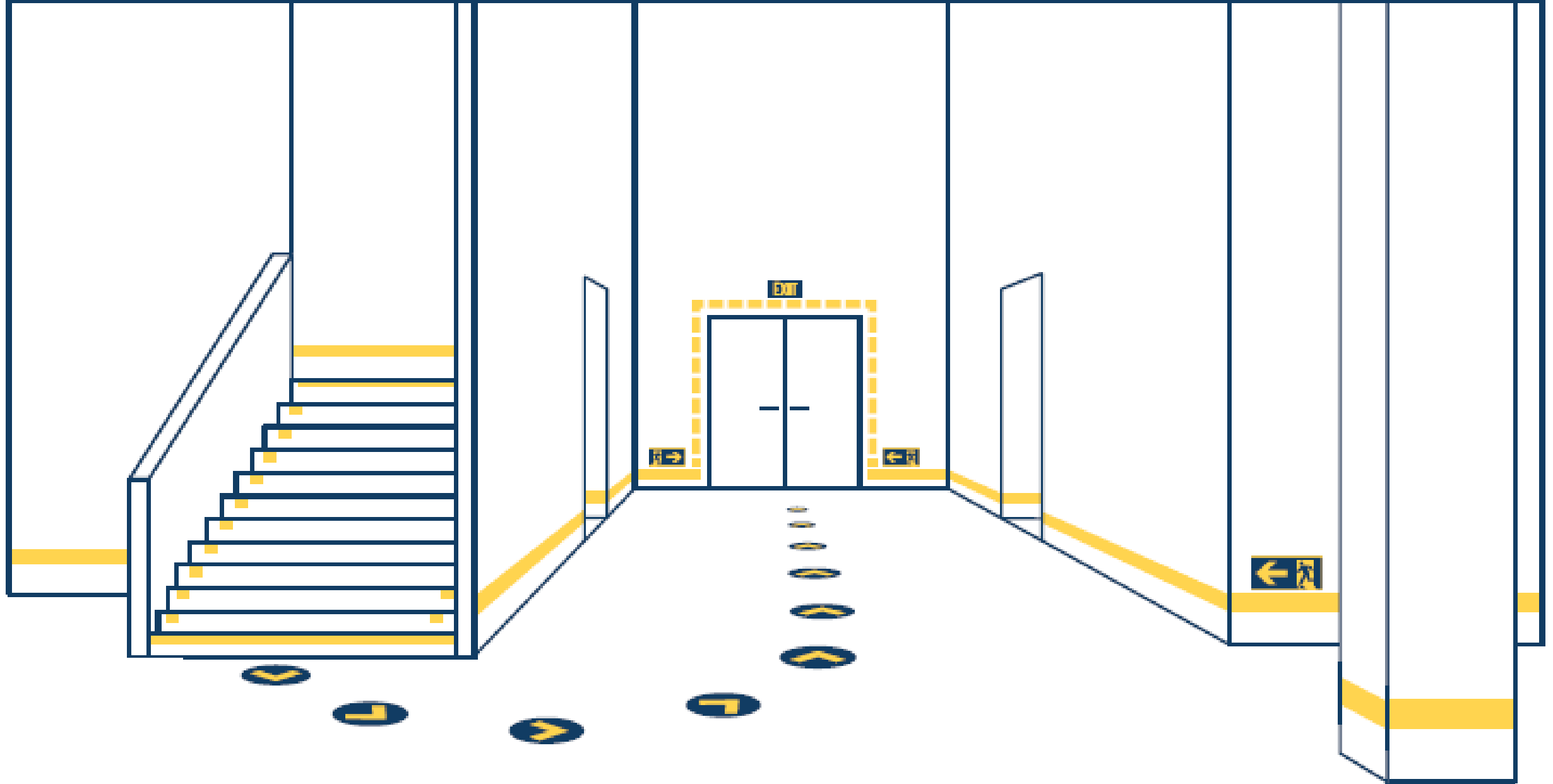
IN CASE OF FIRE  
EXIT BUILDING  
BEFORE **POSTING** OR  
**TWEETING** ABOUT IT

## **SECTION 1025**

### **LUMINOUS EGRESS PATH MARKINGS**

**1025.2.6.1 Emergency exit symbol.** The doors shall be identified by a low-location luminous emergency exit symbol complying with **NFPA 170**. The exit symbol shall be a minimum of 4 inches in height and shall be mounted on the door, centered horizontally, with the top of the symbol no higher than 18 inches above the finished floor.

## *Example of luminous egress path markings in a multi-story, commercial building*



## SECTION 1025

### LUMINOUS EGRESS PATH MARKINGS

**1025.1 General.** *Approved* luminous egress path markings delineating the exit path shall be provided in *high-rise buildings* of Group A, B, E, I, M, and R-1 occupancies in accordance with Sections 1025.1 through 1025.5.

**Exception:** Luminous egress path markings shall not be required on the *level of exit discharge* in lobbies that serve as part of the exit path in accordance with Section 1028.1, Exception 1.

**2nd Floor**

**EAG REALTY Inc.**  
Suite 204  
(305) 229-8111

 **Santitas Financial Group, Inc.**  
*General Mortgage Broker*  
Suite 202  
(305) 229-2297

**Torres & Vadillo, LLP**  
*Attorneys at Law*  
Real Estate & Immigration Attorneys  
Suite 202  
(305) 485-9700

**Stairs ↑**  
**Elevator ←**



**2nd Floor**

**EAG REALTY Inc.**  
Suite 204  
(305) 229-8111

 **Santitas Financial Group, Inc.**  
*General Mortgage Broker*  
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(305) 229-2297

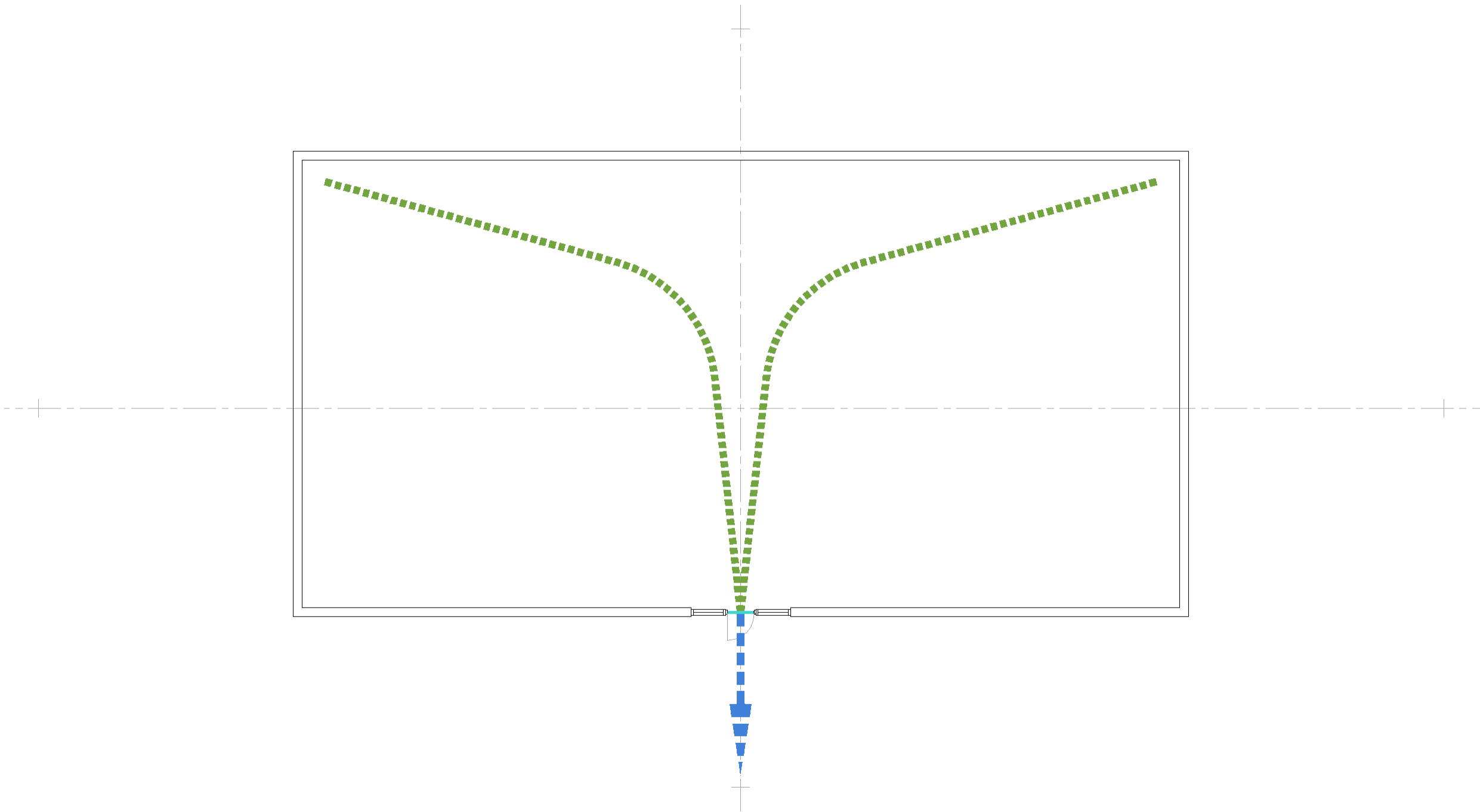
**Torres & Vadillo, LLP**  
*Attorneys at Law*  
Real Estate & Immigration Attorneys  
Suite 202  
(305) 485-9700

**Stairs ↑**  
**Elevator ←**



**MEANS OF EGRESS.** A continuous and unobstructed path of **vertical** and **horizontal** egress travel from any occupied portion of a building or structure to a *public way*. A means of egress consists of three separate and distinct parts: the ***exit access***, the ***exit*** and the ***exit discharge***.







# Florida Building Code

## Submittal Documents 107.2.3

### Means of egress.

The *construction documents* shall show in sufficient detail the location, construction, size and character of all portions of the *means of egress* including the path of the *exit discharge* to the *public way* in compliance with the provisions of this code.

In other than occupancies in Groups R-2, R-3, and I-1, the *construction documents* shall designate the number of occupants to be accommodated on every floor, and in all rooms and spaces.

# CHAPTER 10 MEANS OF EGRESS

## Section

1001 Administration

1002 Definitions

1003 General Means of Egress

1004 Occupant Load

1005 Means of Egress Sizing

1006 Number of Exits and

Exit Access Doorways

1007 Exits and Exit Access

Doorway Configuration

1008 Means of Egress Illumination

1009 Accessible Means of Egress

1010 Doors, Gates and Turnstiles

1011 Stairways

1012 Ramps

1013 Exit Signs

1014 Handrails

1015 Guards

1016 Exit Access

1017 Exit Access Travel Distance

1018 Aisles

1019 Exit Access Stairways and Ramps

1020 Corridors

1021 Egress Balconies

1022 Exits

1023 Interior Exit Stairways and Ramps

1024 Exit Passageways

1025 Luminous Egress Path Markings

1026 Horizontal Exits

1027 Exterior Exit Stairways and Ramps

1028 Exit Discharge

1029 Assembly

1030 Emergency Escape and Rescue

# LIFE SAFETY SYMBOLS

NFPA 170

## E:\$S EGRESS COMPONENT IDENTIFIER

- EX# = EXIT NUMBER
- HE = HORIZONTAL EXIT
- CP = COMMON PATH OF TRAVEL
- PD = PUBLIC DISCHARGE
- RD = ROOM DOOR
- ES = ESCAPE

## 00>\$S TRAVEL DISTANCE SYMBOL

- EGRESS COMPONENT
- DISTANCE TO

## <00> EGRESS COMPONENT CAPACITY

## <<00>> GOVERNING COMPONENT CAPACITY

## 0000 OCCUPANCY CAPACITY SYMBOL

CAPACITY

SQUARE FEET PER PERSON

NET AREA (SQUARE FEET)

## CODE SECTION GOVERNING CODE REFERENCE

FFPC=FLORIDA FIRE PREVENTION CODE

FBC =FLORIDA BUILDING CODE

- EXIT ACCESS
- EXIT
- EXIT DISCHARGE

- = 20 MIN RATED
- = 30 MIN RATED
- = 45 MIN RATED
- = 1 HOUR
- = 1.5 HOUR
- = 2 HOUR
- etc.

Wall Ratings shown are for Life Safety Plan requirements. Not for Building Type/Shfts.

- 1 HOUR RATED WALL
- 2 HOUR RATED WALL
- FIRE WALL
- SMOKE PROTECTION

- 3/4 HOUR RATED

- 1 1/2 HOUR RATED

- PH PANIC HARDWARE
- FIRE EXTINGUISHER
- EXIT SIGN
- EXIT SIGN with Emergency Lights
- EMERGENCY LIGHT
- MANUAL PULL STATION
- HORN/VISIBLE
- PRESSURIZED
- FIRE TEST ID





**20 MINUTES**



**30 MINUTES**



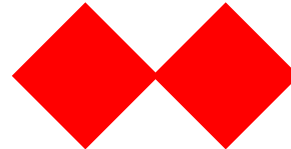
**45 MINUTES**



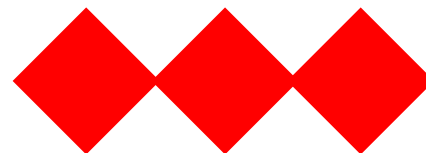
**1 HOUR**



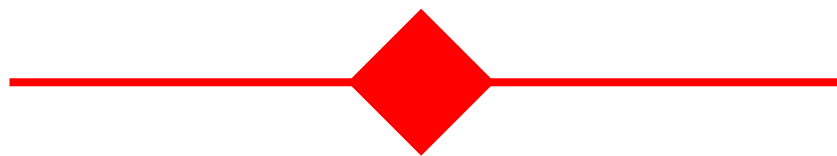
**1 1/2 HOUR**

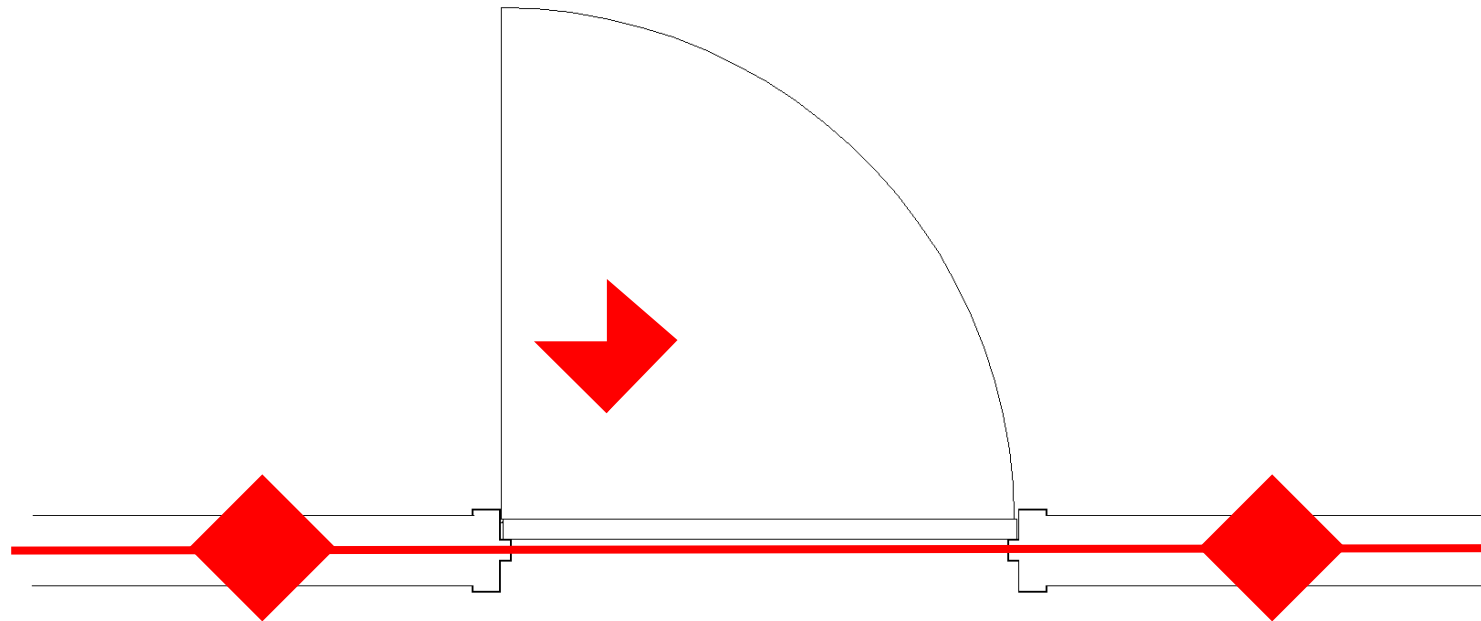


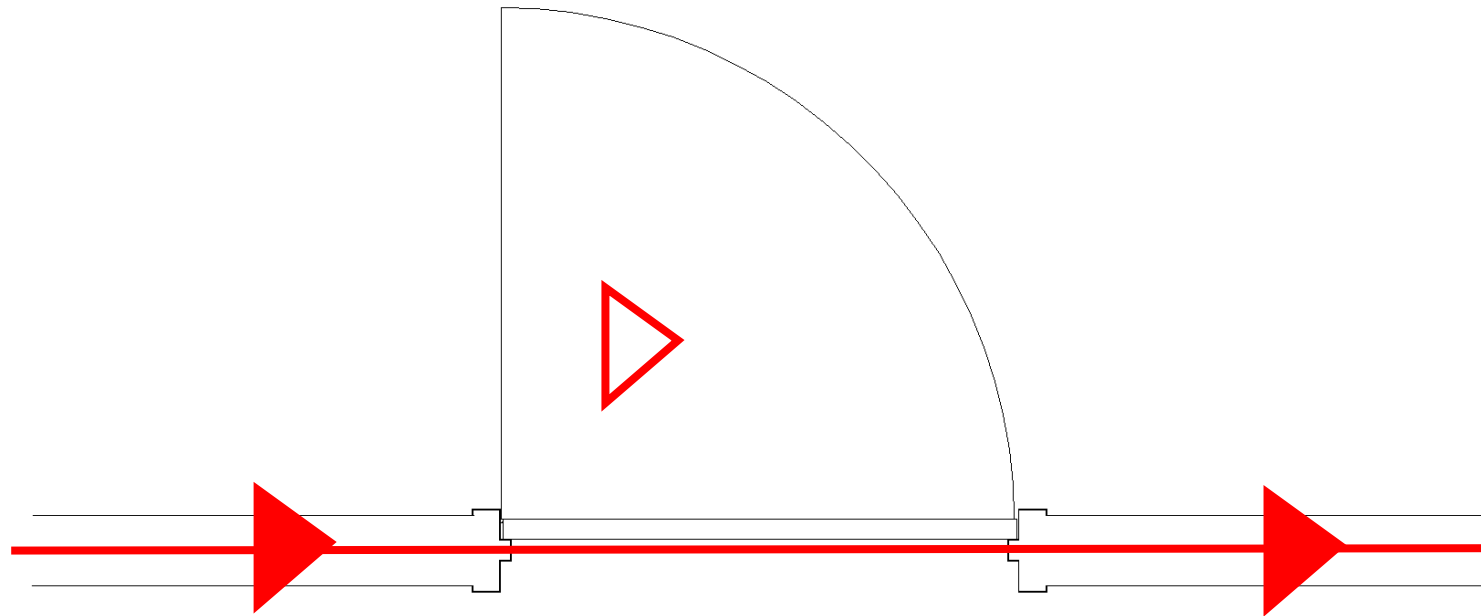
**2 HOUR**



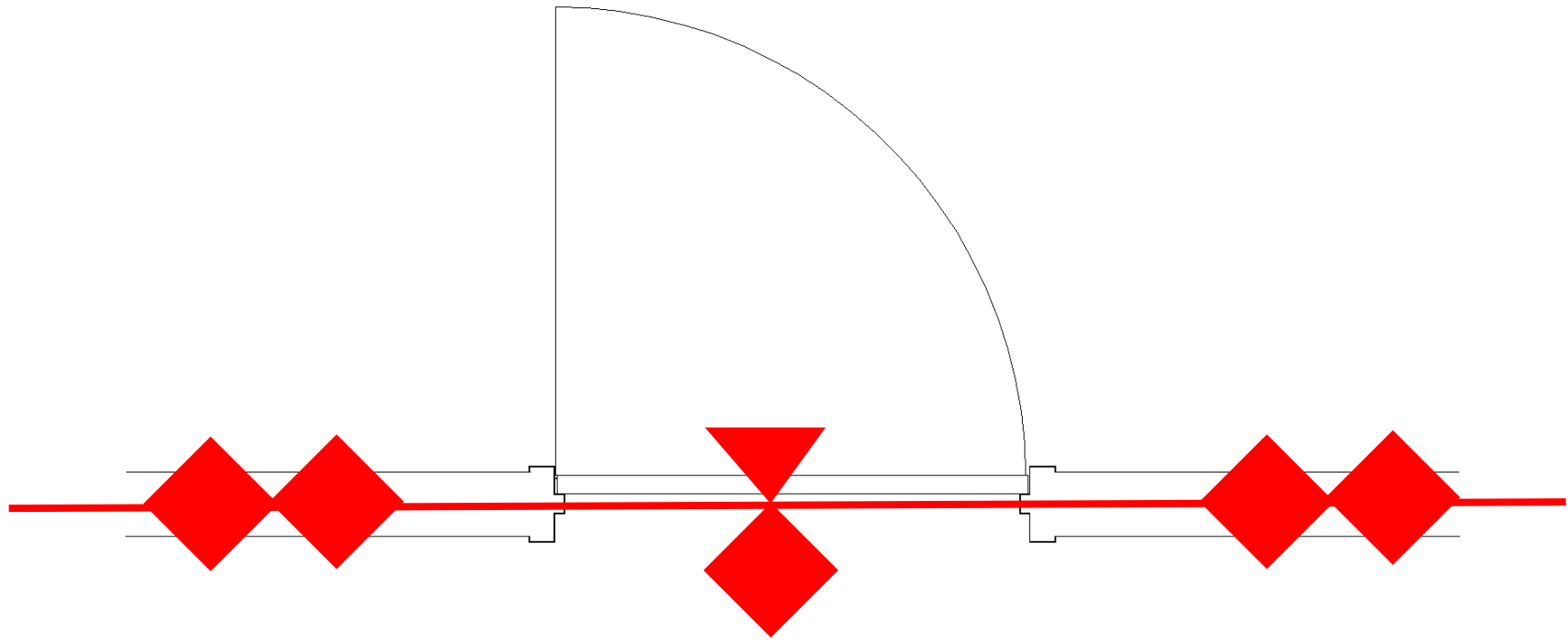
**3 HOUR**

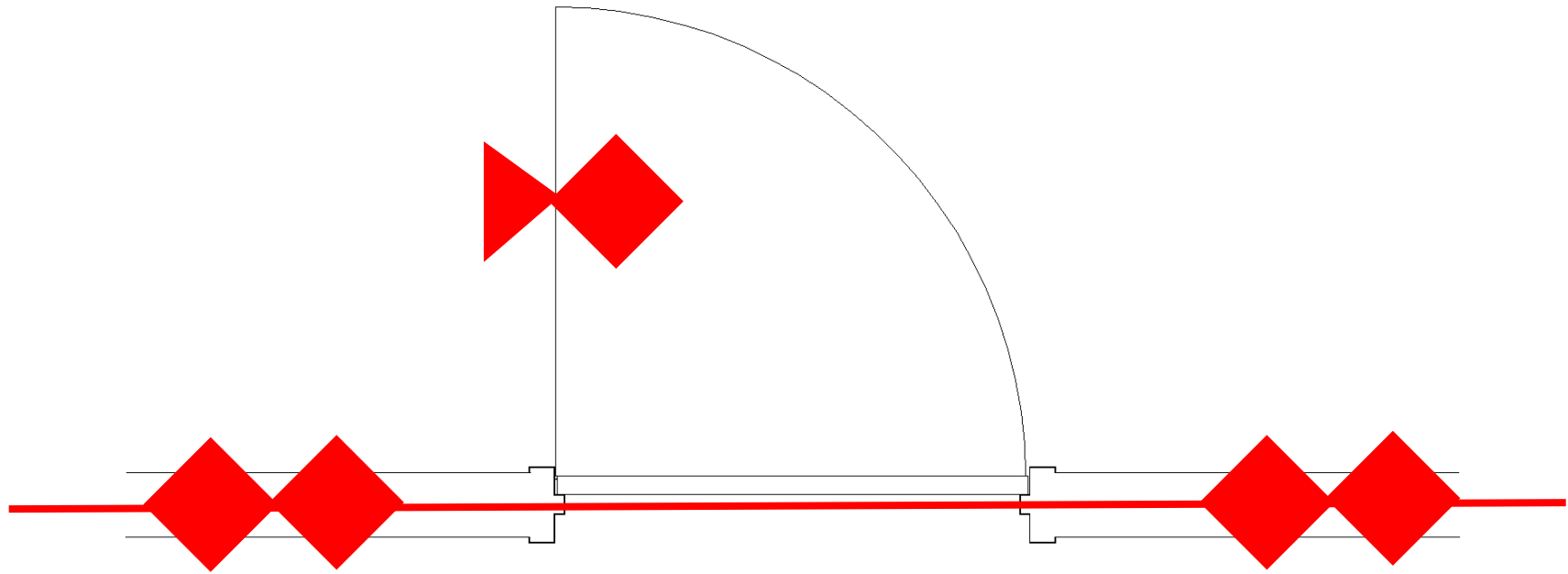










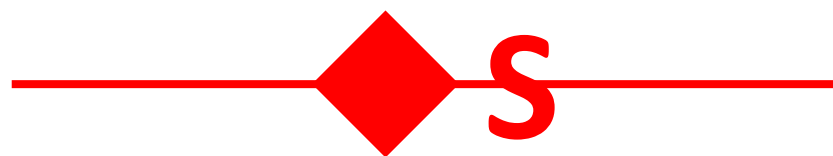
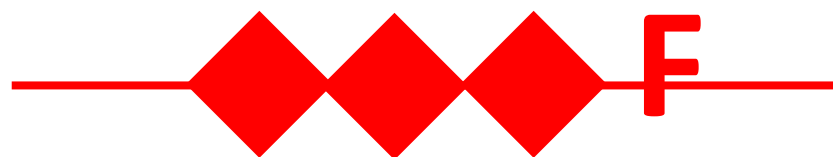


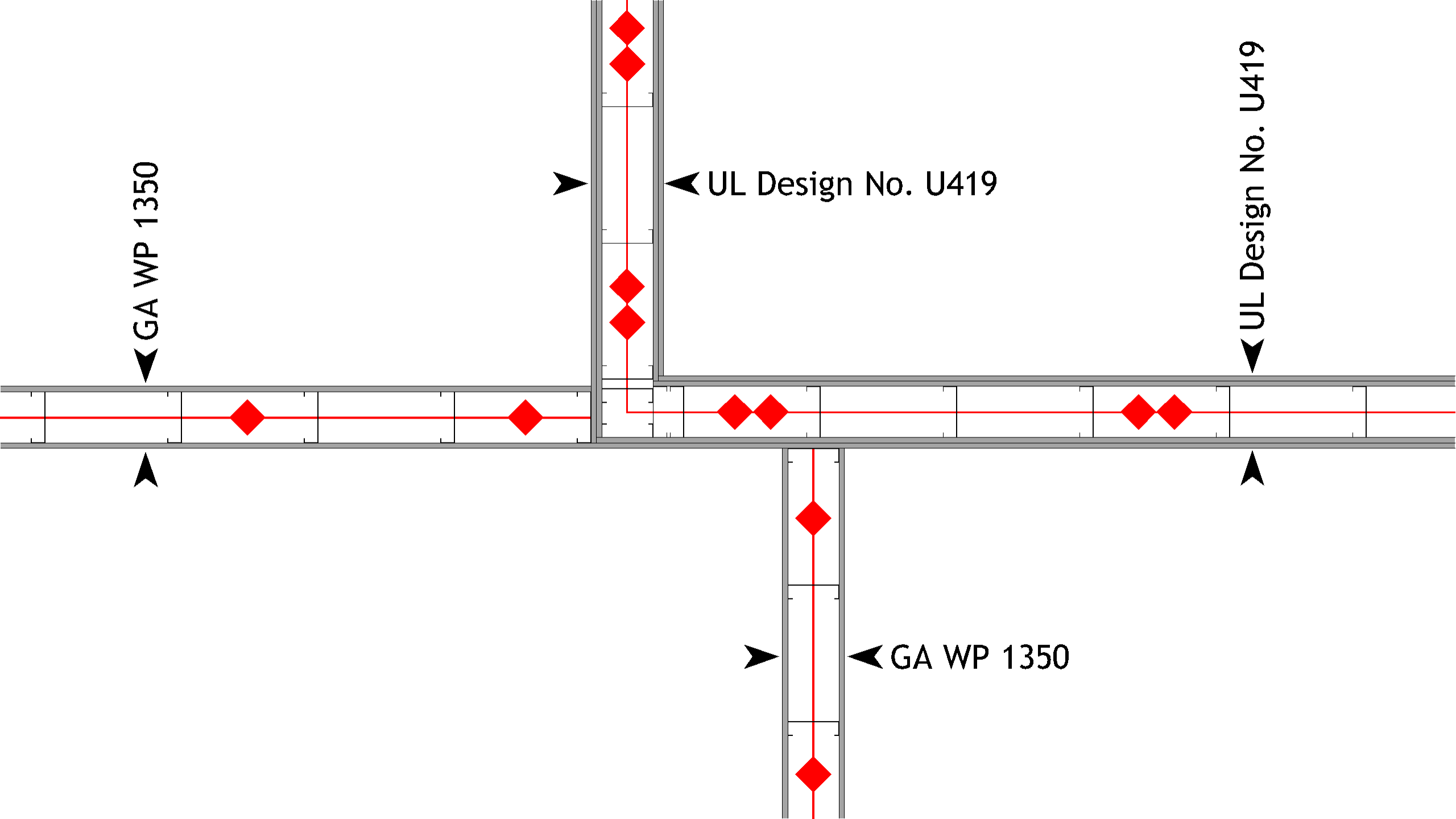
**P** PARTITION

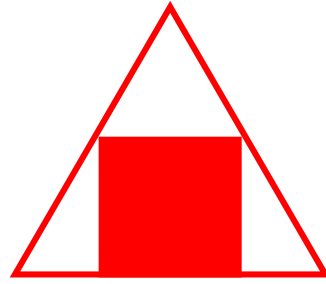
**B** BARRIER

**F** FIRE WALL

**S** SMOKE PROTECTED WALL







## **Portable Fire Extinguishers**

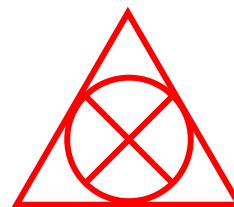
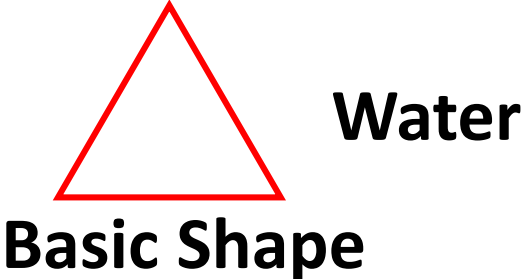
FBC Section 906.2

FFPC NFPA 1-13.6.2

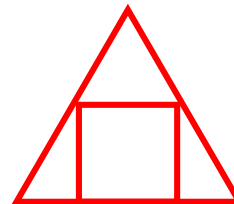
FFPC NFPA 101-9.9

**NFPA 10**

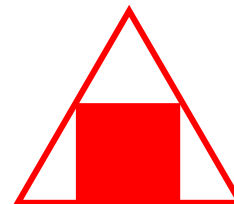
# Portable Fire Extinguishers



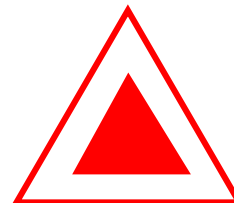
**Foam**



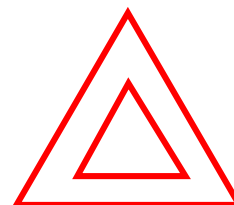
**Dry chemical , liquid, gas or electric**



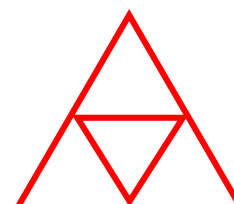
**Dry chemical , all except metals**



**CO<sub>2</sub>**



**Halon or clean agent**



**Metal fires**



**CLASS A FIRES**  
Ordinary combustible materials



**CLASS B FIRES**  
Flammable liquids and gases



**CLASS C FIRES**  
Energized electrical equipment





**CLASS D FIRES**  
Combustible metals



**CLASS K FIRES**  
Flammable cooking media

## SECTION 906

### PORTABLE FIRE EXTINGUISHERS

**[F] 906.1 Where required.** Portable fire extinguishers shall be installed in all of the following locations:

1. In Group A, B, E, F, H, I, M, R-1, R-2, R-4 and S occupancies.

**Exception:** In Group R-2 occupancies, portable fire extinguishers shall be required only in locations specified in Items 2 through 6 where each *dwelling unit* is provided with a portable fire extinguisher having a minimum rating of 1-A:10-B:C.

## Light Hazard

Occupancies where the quantity and combustibility of CLASS A and CLASS B ( less than 1 gal per room or area) are **low** and fires with relatively **low** rates of heat release.

## Ordinary Hazard

Occupancies where the quantity and combustibility of CLASS A and CLASS B ( 1 to 5 gal per room or area)are **moderate** and fires with relatively **moderate** rates of heat release.

## Extra Hazard

Occupancies where the quantity and combustibility of CLASS A and CLASS B ( more than 5 gal per room or area) are **high** and fires with relatively **high** rates of heat release.

## **Light Hazard**

**Offices, classrooms, churches, assembly halls, hotel or motel guestrooms, etc.**

## **Ordinary Hazard**

**Dining areas, mercantile shops and allied storage, light manufacturing, research operations, auto showrooms, parking garages, workshop or support service areas of light hazard occupancies and warehouses containing NFPA 13 Class I or Class II commodities.**

## **Extra Hazard**

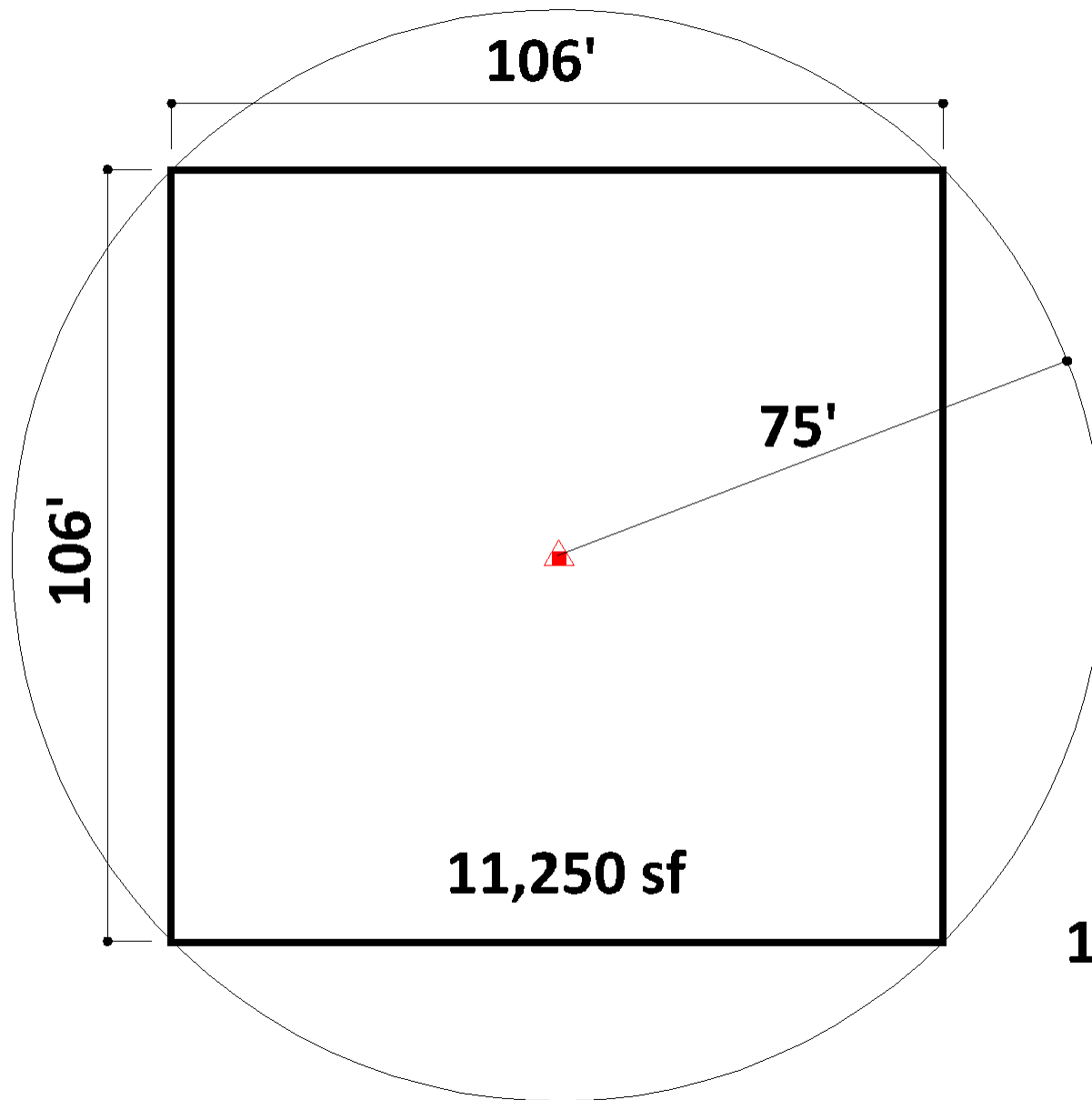
**Wood working, vehicle repair, aircraft and boat servicing, cooking areas, individual product display showrooms, product convention center displays and storage and manufacturing process such as painting, dipping, and coating including flammable liquid handling. Warehousing or in-process storage of other than NFPA 13 Class I or Class II commodities.**



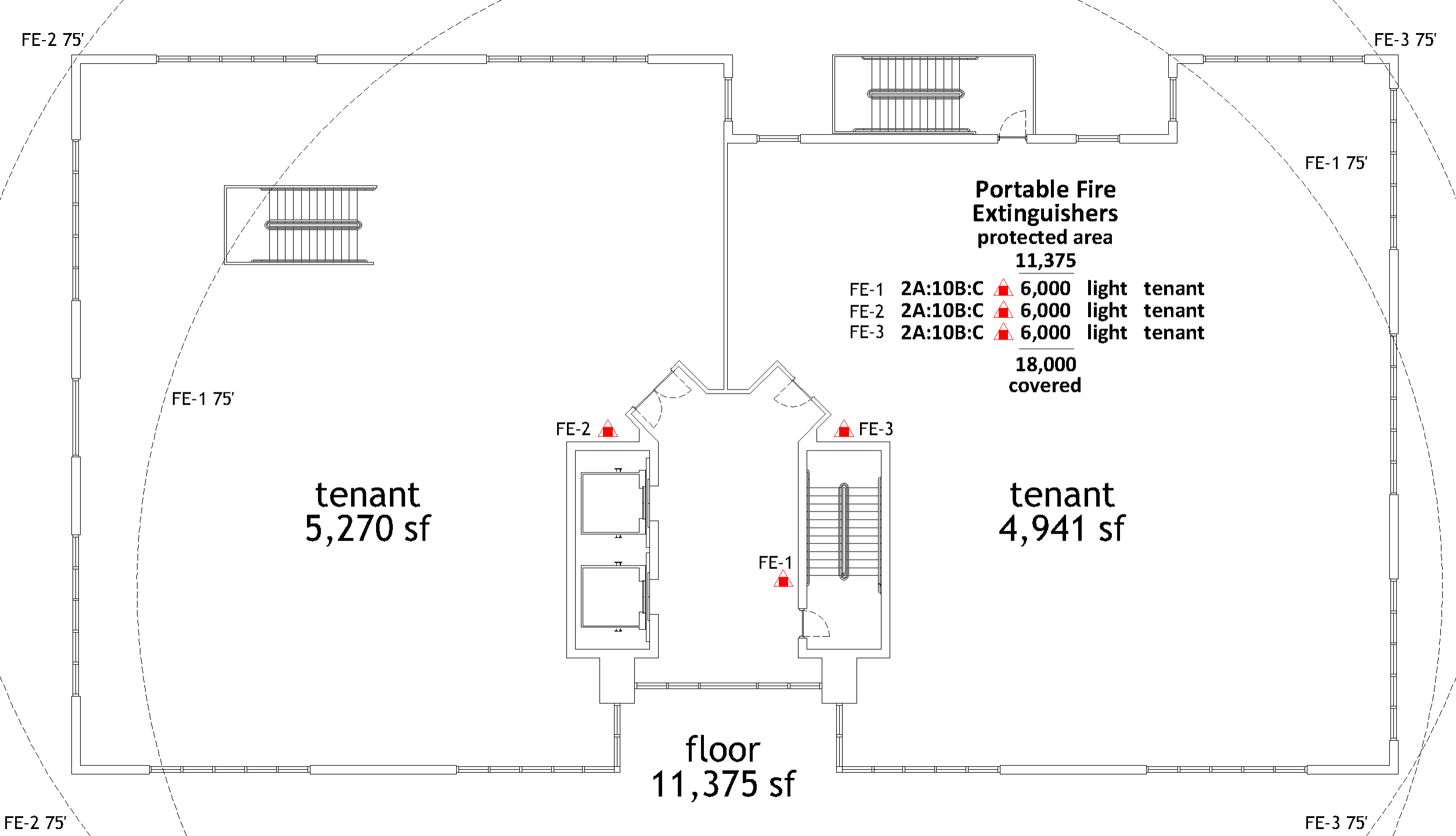
## Portable Fire Extinguishers Maximum Protected area

2A-10B:C	6,000	light	A = 3,000 sf
2A-10B:C	3,000	ordinary	A = 1,500 sf
3A-40B:C	9,000	light	
3A-40B:C	4,500	ordinary	
4A-80B:C	11,250	light	
4A-80B:C	6,000	ordinary	
4A-80B:C	4,000	extra	A = 1,000 sf

**within 75'**



$$106' \times 106' = 11,236$$
$$11,250$$



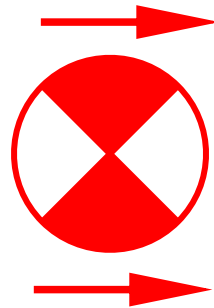
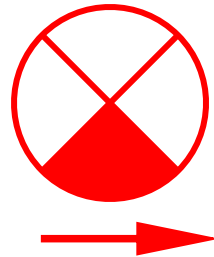
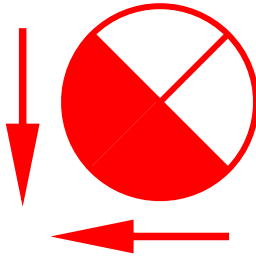
**Portable Fire Extinguishers**  
protected area  
**11,375**

FE-1	2A:10B:C	▲	6,000	light	tenant
FE-2	2A:10B:C	▲	6,000	light	tenant
FE-3	2A:10B:C	▲	6,000	light	tenant
			<b>18,000</b>	<b>covered</b>	

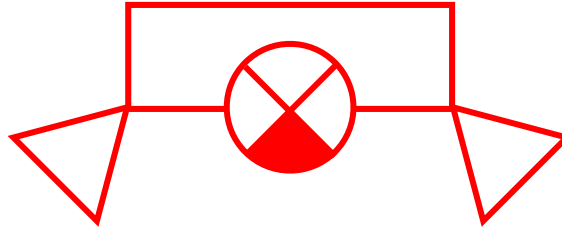
**[F] TABLE 906.3(2)**  
**FIRE EXTINGUISHERS FOR FLAMMABLE OR**  
**COMBUSTIBLE LIQUIDS WITH DEPTHS**  
**LESS THAN OR EQUAL TO 0.25 INCH**

TYPE OF HAZARD	BASIC MINIMUM EXTINGUISHER RATING	MAXIMUM DISTANCE OF TRAVEL TO EXTINGUISHERS (feet)
Light (Low)	5-B	30
	10-B	50
Ordinary (Moderate)	10-B	30
	20-B	50
Extra (High)	40-B	30
	80-B	50

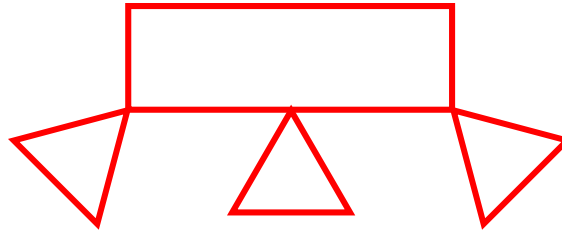




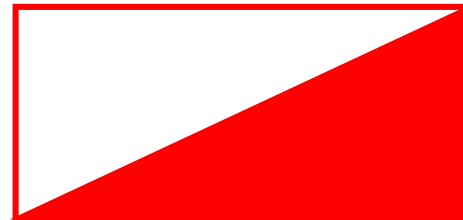
**EXIT sign, illuminated  
sign face  
direction arrow**



**Emergency light, battery  
w/EXIT sign**



**Emergency light, battery**



**Emergency light, fixture**



**1013.1 Where required.** *Exits* and *exit access* doors shall be marked by an *approved* exit sign readily visible from any direction of egress travel. The path of egress travel to *exits* and within *exits* shall be marked by readily visible exit signs to clearly indicate the direction of egress travel in cases where the *exit* or the path of egress travel is not immediately visible to the occupants. Intervening *means of egress* doors within *exits* shall be marked by exit signs. Exit sign placement shall be such that no point in an *exit access corridor* or *exit passageway* is more than 100 feet (30 480 mm) or the *listed* viewing distance for the sign, whichever is less, from the nearest visible exit sign.

## Exceptions:

1. Exit signs are not required in rooms or areas that require only one *exit* or *exit access*.
2. Main exterior *exit* doors or gates that are obviously and clearly identifiable as *exits* need not have exit signs where *approved* by the *building official*.

...

## **7.10.1.5 Exit Access.**

**7.10.1.5.1** Access to exits shall be marked by approved, readily visible signs in all cases where the exit or way to reach the exit is not readily apparent to the occupants.

**7.10.1.5.2\*** New sign placement shall be such that no point in an exit access corridor is in excess of the rated viewing distance or 100 ft (30 m), whichever is less, from the nearest sign.

**7.10.3.2\*** Where approved by the authority having jurisdiction, pictograms in compliance with NFPA 170, *Standard for Fire Safety and Emergency Symbols*, shall be permitted.

**1013.5 Internally illuminated exit signs.** Electrically powered, *self-luminous* and *photoluminescent* exit signs shall be *listed* and *labeled* in accordance with UL 924 and shall be installed in accordance with the manufacturer's instructions and Chapter 27. Exit signs shall be illuminated at all times.

**1025.5 Illumination.** Where *photoluminescent* exit path markings are installed, they shall be provided with not less than 1 footcandle (11 lux) of illumination for not less than 60 minutes prior to periods when the building is occupied and continuously during occupancy.



**1025.4 Self-luminous and photoluminescent.** Luminous egress path markings shall be permitted to be made of any material, including paint, provided that an electrical charge is not required to maintain the required luminance. Such materials shall include, but not be limited to, *self-luminous* materials and *photoluminescent* materials. Materials shall comply with either of the following standards:

1. UL 1994.
2. ASTM E2072, except that the charging source shall be 1 footcandle (11 lux) of fluorescent illumination for 60 minutes, and the minimum luminance shall be 30 milicandelas per square meter at 10 minutes and 5 milicandelas per square meter after 90 minutes.



**Pull Station/ fire alarm box**



**A**utomated **E**xternal **D**efibrillator



**Pressurized**

# LIFE SAFETY SYMBOLS

NFPA 170

## E:\$S EGRESS COMPONENT IDENTIFIER

EX# = EXIT NUMBER

HE = HORIZONTAL EXIT

CP = COMMON PATH OF TRAVEL

PD = PUBLIC DISCHARGE

RD = ROOM DOOR

ES = ESCAPE

## 00>\$S TRAVEL DISTANCE SYMBOL

EGRESS COMPONENT  
DISTANCE TO

## <00> EGRESS COMPONENT CAPACITY

## <<00>> GOVERNING COMPONENT CAPACITY

CAPACITY

## 000 OCCUPANCY CAPACITY SYMBOL

SQUARE FEET PER PERSON  
NET AREA (SQUARE FEET)

FFPC=FLORIDA FIRE PREVENTION CODE

FBC =FLORIDA BUILDING CODE

## CODE SECTION GOVERNING CODE REFERENCE



EXIT ACCESS



EXIT



EXIT DISCHARGE



= 20 MIN RATED



= 30 MIN RATED



= 45 MIN RATED



= 1 HOUR



= 1.5 HOUR



= 2 HOUR



etc.

Wall Ratings shown are for  
Life Safety Plan requirements.  
Not for Building Type/Shfts.



1 HOUR RATED WALL



2 HOUR RATED WALL



FIRE WALL



SMOKE PROTECTION



3/4 HOUR RATED



1 1/2 HOUR RATED



PH PANIC HARDWARE



FIRE EXTINGUISHER



EXIT SIGN



EXIT SIGN with Emergency Lights



EMERGENCY LIGHT



MANUAL PULL STATION



HORN/VISIBLE




PRESSURIZED



FIRE TEST ID

E:\$ \$ Egress Component Identifier



EX	Exit
HE	Horizontal Exit
CP	Common Path
RD	Room Door
ES	Escape
PD	Public Discharge

##>\$ \$ Travel Distance Symbol



Distance to

E:RD

E:EX1

E:HE

50'>RD

160'>EX1

175'>HE

75'>CP

# LIFE SAFETY SYMBOLS

NFPA 170

## E:\$S EGRESS COMPONENT IDENTIFIER

EX# = EXIT NUMBER  
HE = HORIZONTAL EXIT  
CP = COMMON PATH OF TRAVEL  
PD = PUBLIC DISCHARGE  
RD = ROOM DOOR  
ES = ESCAPE

## 00>\$S TRAVEL DISTANCE SYMBOL

EGRESS COMPONENT  
DISTANCE TO

<00> EGRESS COMPONENT CAPACITY  
<<00>> GOVERNING COMPONENT CAPACITY

CAPACITY

## 000 OCCUPANCY CAPACITY SYMBOL

SQUARE FEET PER PERSON  
NET AREA (SQUARE FEET)

FFPC=FLORIDA FIRE PREVENTION CODE

FBC =FLORIDA BUILDING CODE

CODE  
SECTION GOVERNING CODE REFERENCE

||||| EXIT ACCESS  
EXIT  
||||| EXIT DISCHARGE

◁ = 20 MIN RATED  
◀ = 30 MIN RATED  
◄ = 45 MIN RATED  
◆ = 1 HOUR  
◆◆ = 1.5 HOUR  
◆◆◆ = 2 HOUR  
etc.

Wall Ratings shown are for  
Life Safety Plan requirements.  
Not for Building Type/Shfts.

◆ 1 HOUR RATED WALL  
◆◆ 2 HOUR RATED WALL  
—F— FIRE WALL  
—S— SMOKE PROTECTION

3/4 HOUR RATED

1 1/2 HOUR RATED

PH PANIC HARDWARE  
▲ FIRE EXTINGUISHER  
⊗ EXIT SIGN

EXIT SIGN with Emergency Lights

EMERGENCY LIGHT

Ⓢ MANUAL PULL STATION  
⊠ HORN/VISIBLE  
+ PRESSURIZED

▼  
▲ FIRE TEST ID

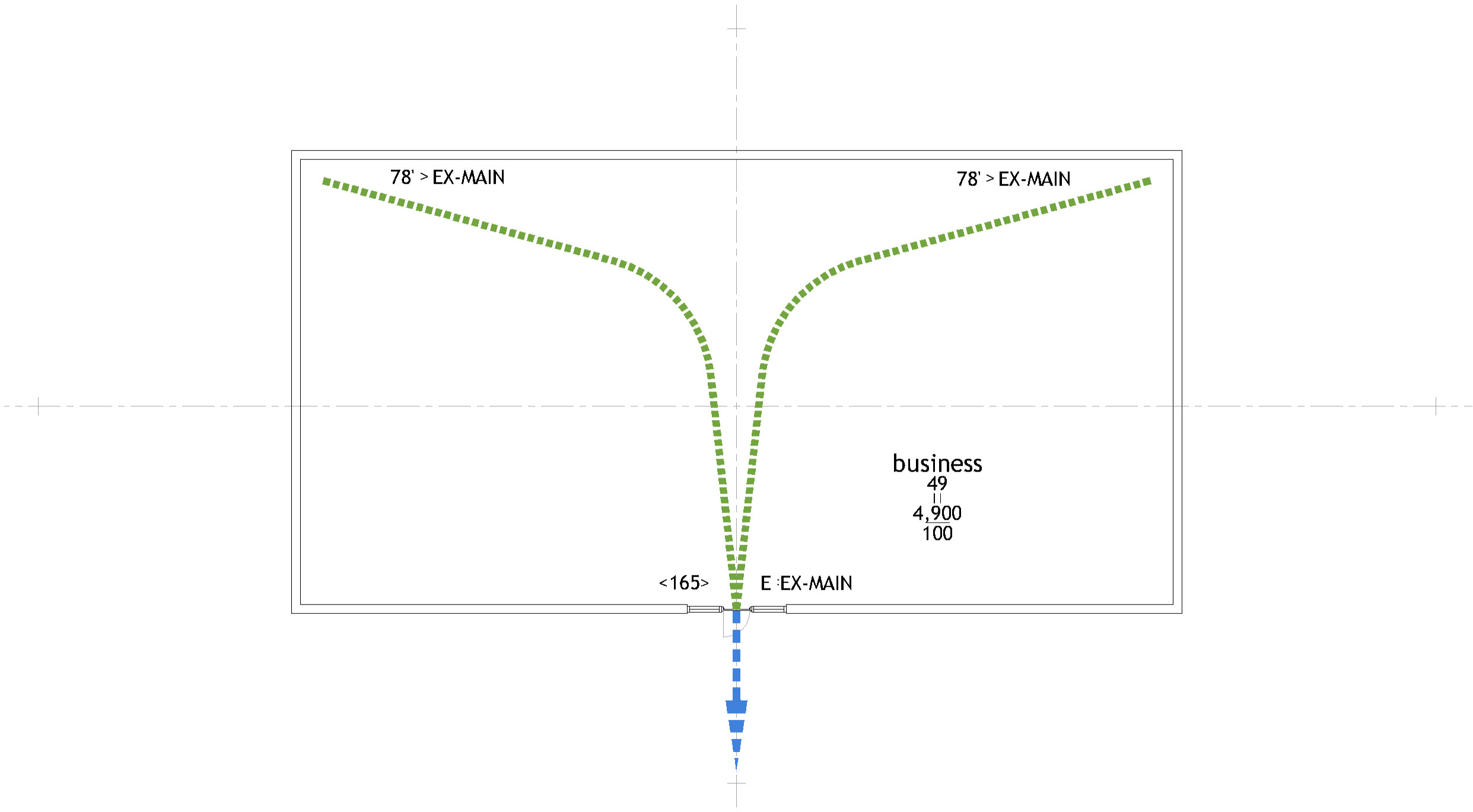


<##>  
<165>

Egress Component Capacity

<<##>>  
<<120>>

Governing Component Capacity



78' > EX-MAIN

78' > EX-MAIN

business

49

4,900

100

<165>

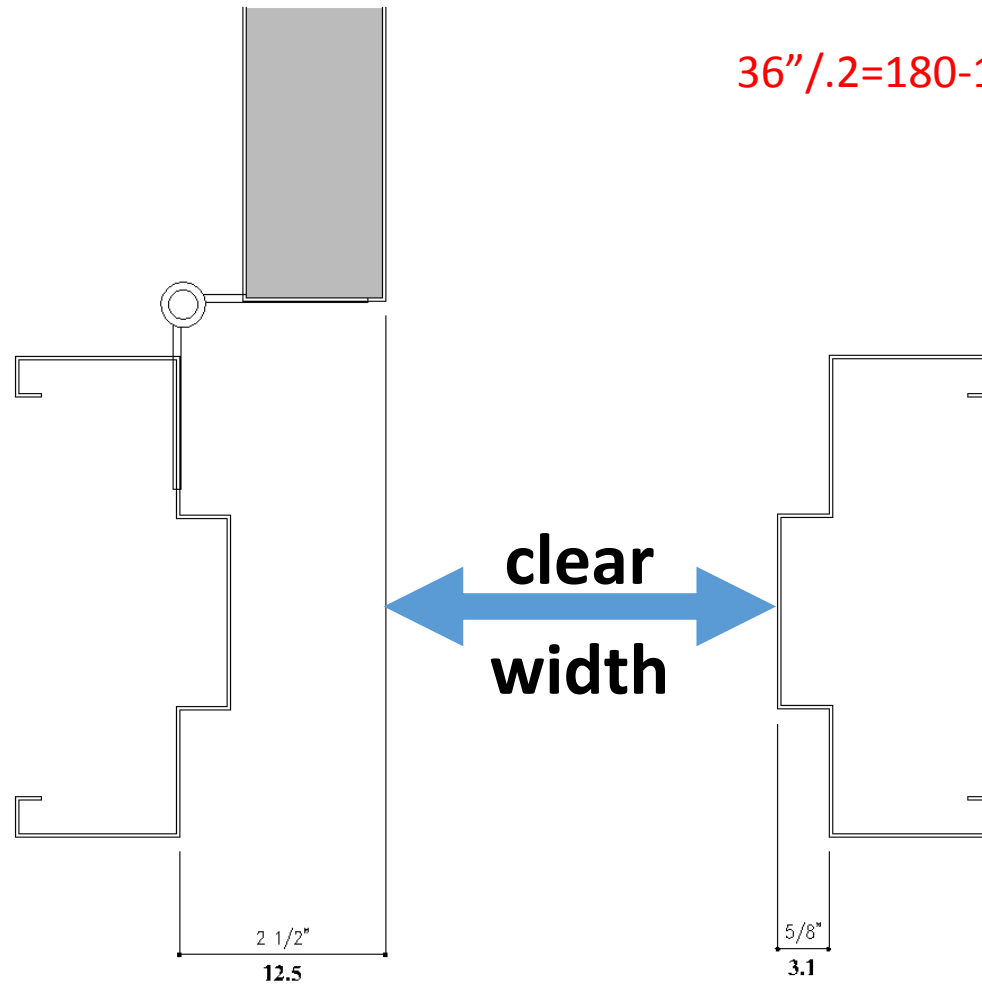
E EX-MAIN

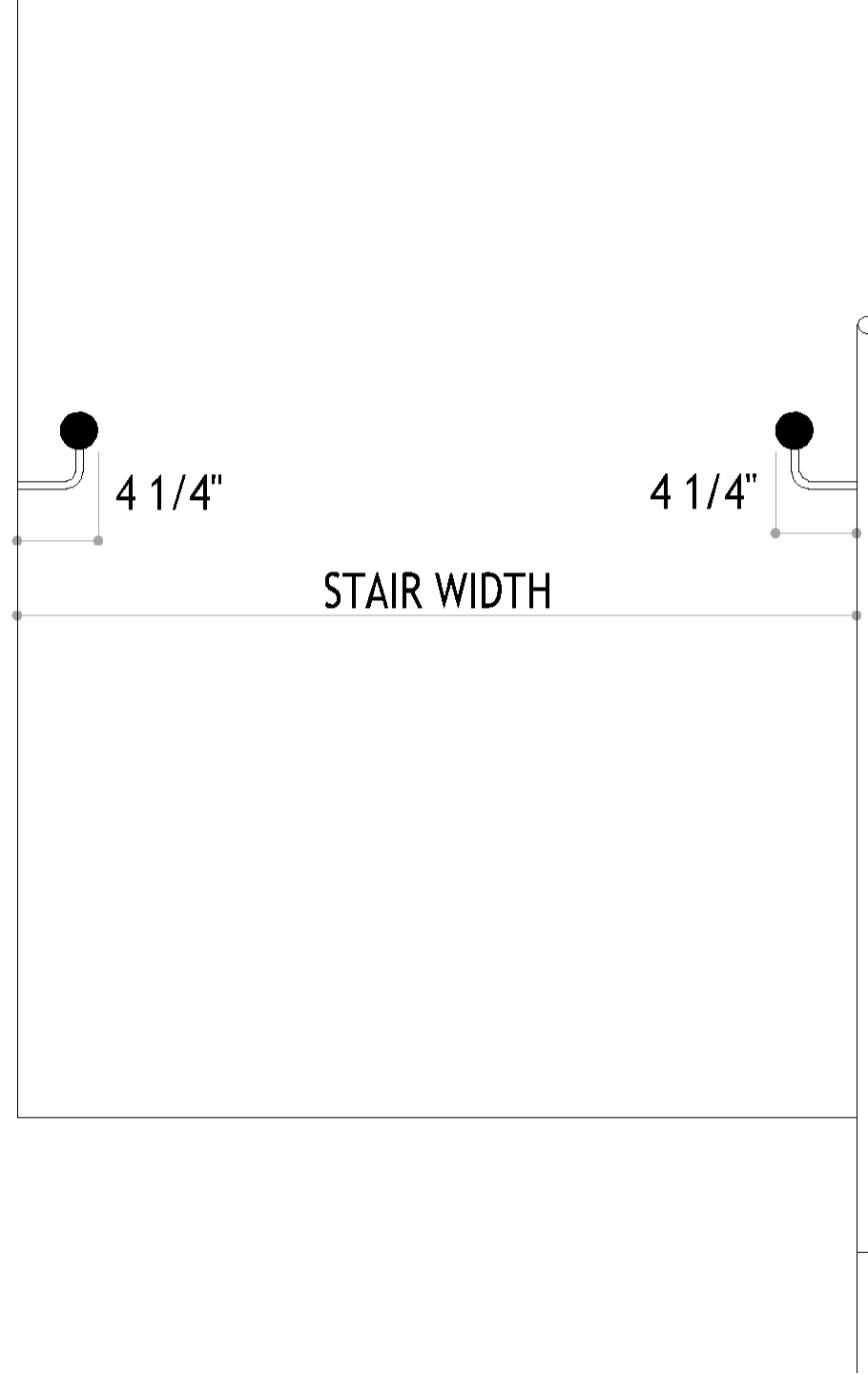
## SECTION 1005 : MEANS OF EGRESS SIZING

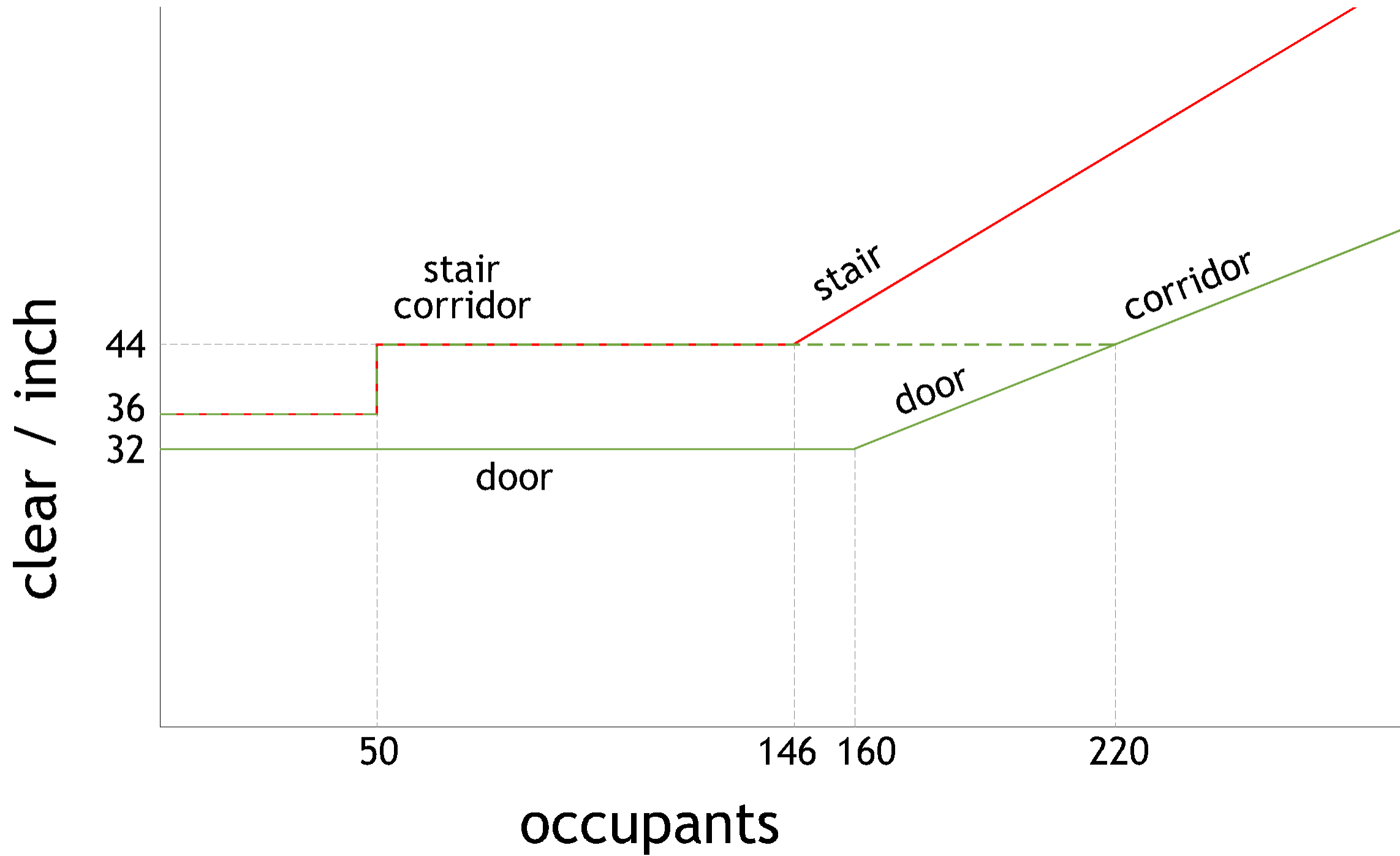
**1005.3.1 Stairways.** The capacity, in inches (mm), of *means of egress stairways* shall be calculated by multiplying the *occupant load* served by such *stairway* by a *means of egress* capacity factor of 0.3 inch per occupant. Where *stairways* serve more than one story, **only** the **occupant load of each story** considered individually shall be used in calculating the required capacity of the *stairways* serving that story.

**1005.3.2 Other egress components.** The capacity, in inches, of *means of egress* components other than *stairways* shall be calculated by multiplying the *occupant load* served by such component by a *means of egress* capacity factor of 0.2 inch per occupant.

$$36''/.2=180-15=165$$







## SECTION 1005 : MEANS OF EGRESS SIZING

**1005.7 Encroachment.** Encroachments into the required *means of egress* width shall be in accordance with the provisions of this section.

**1005.7.1 Doors.** Doors, when fully **opened**, shall not reduce the required width by more than **7 inches**. Doors in any position shall not reduce the required width by more than **one-half**.

**Exception:**

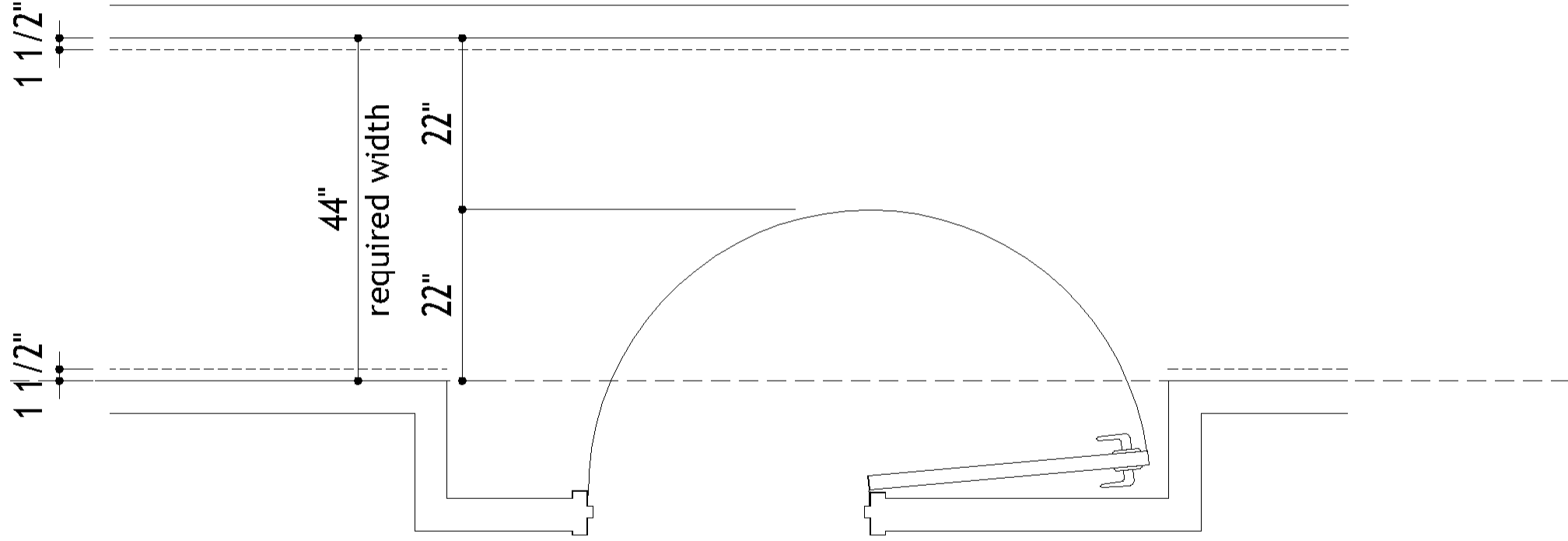
1. Surface-mounted latch release hardware shall be **exempt** from inclusion in the 7-inch maximum encroachment **where**:
  - 1.1. The hardware is **mounted** to the side of the door facing **away from the adjacent wall** where the door is in the open position; and
  - 1.2. The hardware is mounted not less than **34** inches nor more than **48** inches above the finished floor.
2. The restrictions on door swing shall not apply to doors within individual *dwelling units* and *sleeping units* of Group R-2 occupancies and *dwelling units* of Group R-3 occupancies.

## SECTION 1005 : MEANS OF EGRESS SIZING

**1005.7.2 Other projections.** *Handrail* projections shall be in accordance with the provisions of Section 1012.8. **Other nonstructural projections** such as **trim** and similar **decorative features** shall be permitted to project into the required width a maximum of **1 1/2** inches on each side.

**1005.7.3 Protruding objects.** Protruding objects shall comply with the applicable requirements of Section 1003.3.





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3/4 HOUR RATED

1 1/2 HOUR RATED

PH PANIC HARDWARE  
▲ FIRE EXTINGUISHER  
EXIT SIGN  
EXIT SIGN with Emergency Lights  
EMERGENCY LIGHT  
F MANUAL PULL STATION  
HORN/VISIBLE  
+ PRESSURIZED  
FIRE TEST ID

# Occupancy Capacity Symbol

# Occupant Load

||

# Area

-

# Square feet per person

50

||

750

-

15

# SECTION 1004 : OCCUPANT LOAD

## FUNCTION OF SPACE

TABLE 1004.1.2  
MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

FUNCTION OF SPACE	OCCUPANT LOAD FACTOR <sup>a</sup>
Accessory storage areas, mechanical equipment room	300 gross
Agricultural building	300 gross
Aircraft hangars	500 gross
Airport terminal	
Baggage claim	20 gross
Baggage handling	300 gross
Concourse	100 gross
Waiting areas	15 gross
Assembly	
Gaming floors (keno, slots, etc.)	11 gross
Exhibit Gallery and Museum	30 net
Assembly with fixed seats	See Section 1004.4
Assembly without fixed seats	
Concentrated (chairs only-not fixed)	7 net
Standing space	5 net
Unconcentrated (tables and chairs)	15 net
Bowling centers, allow 5 persons for each lane including 15 feet of runway, and for additional areas	7 net
Business areas	100 gross
Courtrooms—other than fixed seating areas	40 net
Day care	35 net
Dormitories	50 gross
Educational	
Classroom area	20 net
Shops and other vocational room areas	50 net
Exercise rooms	50 gross
Group H-5 Fabrication and manufacturing areas	200 gross
Industrial areas	100 gross
Institutional areas	
Inpatient treatment areas	240 gross
Outpatient areas	100 gross
Sleeping areas	120 gross
Kitchens, commercial	200 gross
Library	
Reading rooms	50 net
Stack area	100 gross
Locker rooms	50 gross
Mall buildings—covered and open	See Section 402.8.2
Mercantile	
Areas on other floors	60 gross
Basement and grade floor areas	30 gross
Storage, stock, shipping areas	300 gross
Parking garages	200 gross
Residential	200 gross
Skating rinks, swimming pools	
Rink and pool	50 gross
Decks	15 gross
Stages and platforms	15 net
Warehouses	500 gross

For SI: 1 square foot = 0.0929 m<sup>2</sup>.  
a. Floor area in square feet per occupant.

TABLE 1004.1.2

## SECTION 1004 : OCCUPANT LOAD

### **1004.2.1 Intervening spaces or accessory areas.**

Where occupants egress from one or more rooms, areas or spaces through others, the design *occupant load* shall be the combined *occupant load* of interconnected accessory or intervening spaces. Design of egress path capacity shall be based on the cumulative portion of *occupant loads* of all rooms, areas or spaces to that point along the path of egress travel.

**1004.2.2 Adjacent levels for mezzanines.** That portion of the *occupant load* of a *mezzanine* with required egress through a room, area or space on an adjacent level shall be added to the *occupant load* of that room, area or space.

**1004.2.3 Adjacent stories.** Other than for the egress components designed for convergence in accordance with Section 1005.6, the *occupant load* from separate stories shall not be added.

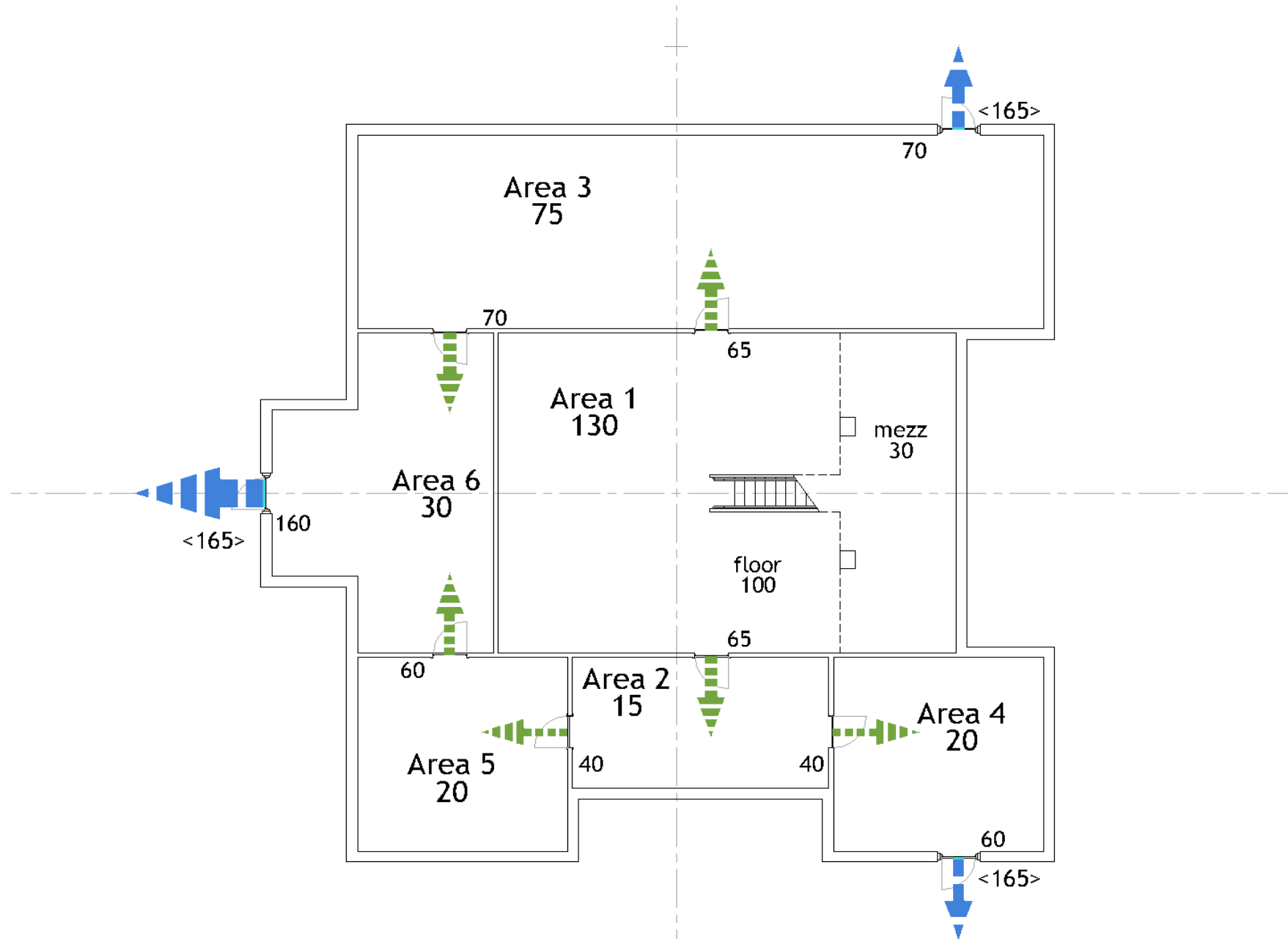
## SECTION 1016 : EXIT ACCESS

**1016.2 Egress through intervening spaces.** Egress through intervening spaces shall comply with this section.

2. Egress from a room or space shall **not pass** through adjoining or intervening rooms or areas, **except** where such adjoining rooms or areas and the area served **are accessory to one or the other**, are not a Group **H** occupancy and provide a discernible path of egress travel to an *exit*.

**Exception:** *Means of egress* are **not prohibited** through adjoining or intervening rooms or spaces in a Group **H, S or F** occupancy when the adjoining or intervening rooms or spaces **are the same or a lesser hazard occupancy group**.

## SECTION 1004 : OCCUPANT LOAD



## SECTION 1005 : MEANS OF EGRESS SIZING

**1005.5. Distribution of minimum width and required capacity.** Where more than one *exit*, or access to more than one *exit*, is **required**, the *means of egress* shall be configured such that the **loss of any one *exit*, or access** to one *exit*, shall not reduce the available capacity to less than **50 percent** of the **required capacity**.



Occupant Load  
##  
EX:\$    ##       ##    EX:\$  
      ##       ##  
Egress Capacity

Occupant Load  
200  
EX:1    100       100    EX:2  
      160       160  
Egress Capacity  
320

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EXIT SIGN with Emergency Lights  
EMERGENCY LIGHT  
F MANUAL PULL STATION  
HORN/VISIBLE  
+ PRESSURIZED  
FIRE TEST ID

# Governing Code Reference

\$\$ Code  
.\$\$.  
\$\$ Section

FBC  
.\$\$.  
303.1.1

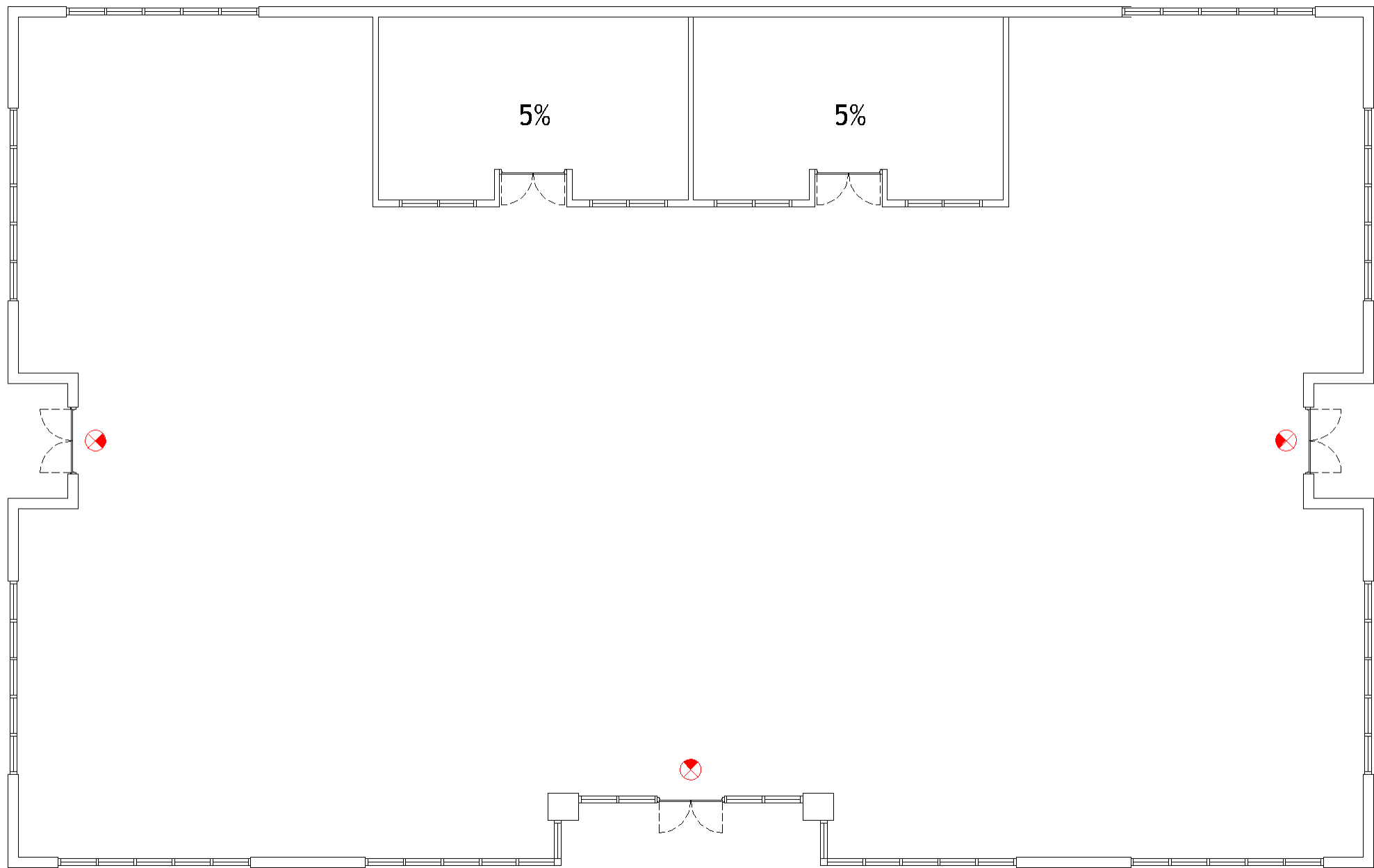
FFPC  
.\$\$.  
6.1.2.1

## SECTION 1016 : EXIT ACCESS

**1016.2.1 Multiple tenants.** Where more than one tenant occupies any **one floor** of a building or structure, **each** tenant space, dwelling unit and sleeping unit shall be provided with **access** to the required *exits* **without passing through** adjacent tenant spaces, *dwelling units* and *sleeping units*.

**Exception:** The *means of egress* from a **smaller tenant** space shall **not be prohibited** from passing through a **larger adjoining tenant space** where such rooms or spaces of the smaller tenant occupy less than **10 percent** of the area of the larger tenant space through which they pass; are the same or similar occupancy group; a discernable path of egress travel to an *exit* is provided; and the *means of egress* into the adjoining space is not subject to locking from the egress side.

A required *means of egress* serving the **larger** tenant space shall **not pass** through the **smaller** tenant space or spaces.



## SECTION 1023 : INTERIOR EXIT STAIRWAYS AND RAMPS

**1023.7 Interior exit stairway and ramp exterior walls.** *Exterior walls of the interior exit stairway and ramp shall comply with the requirements of Section 705 for exterior walls.*

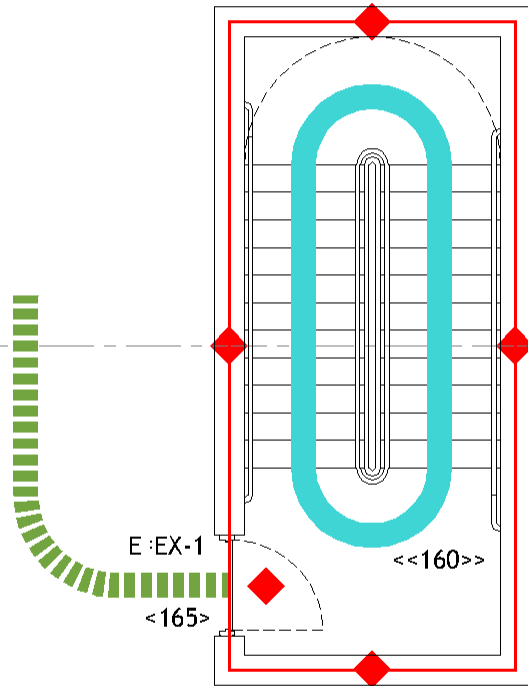
Where nonrated walls or unprotected openings enclose the exterior of the *stairway* and the walls or openings are exposed by other parts of the building at an **angle of less than 180 degrees**,

the building *exterior walls* within **10 feet horizontally** of a **nonrated wall or unprotected opening** shall have a *fire-resistance rating* of not less than 1 hour.

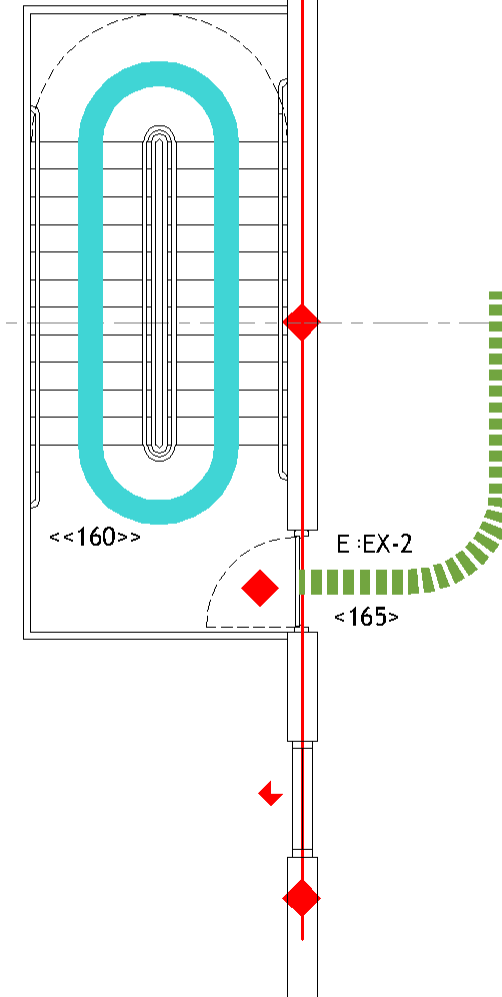
**Openings** within such *exterior walls* shall be protected by opening protectives having a *fire protection rating* of not less than **3/4** hour.

This construction shall extend **vertically** from the ground to a point **10 feet above** the topmost **landing** of the *stairway* or to the roof line, whichever is lower.

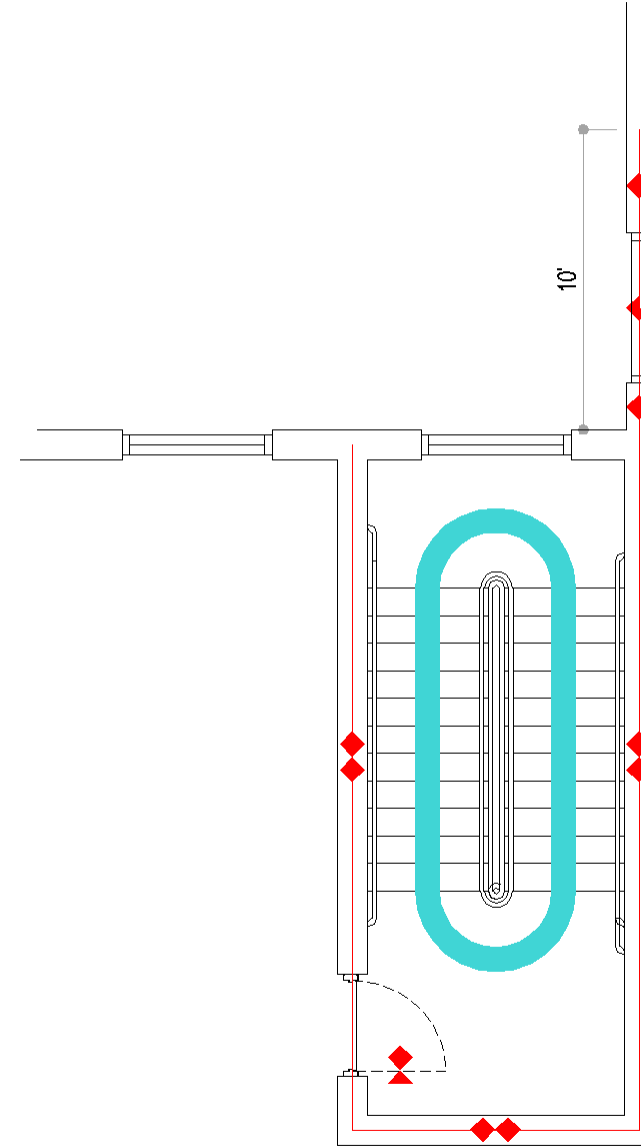
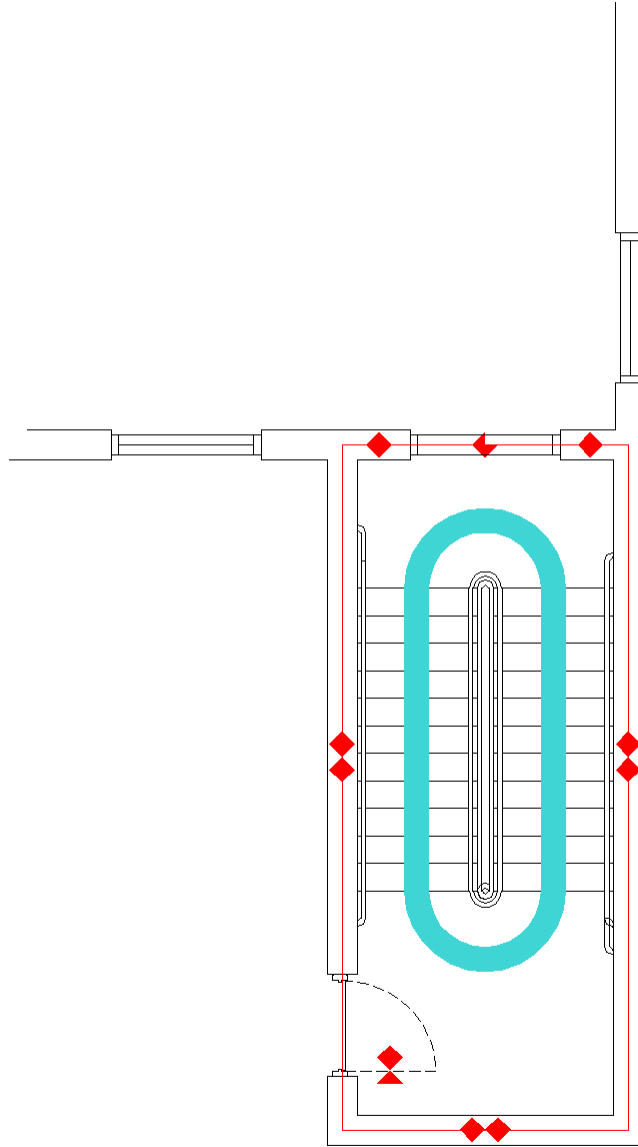
interior



exterior



## SECTION 1023 : INTERIOR EXIT STAIRWAYS AND RAMPS





## SECTION 1011 : STAIRWAYS

**1011.5.2 Riser height and tread depth.** Stair riser heights shall be 7 inches maximum and 4 inches minimum.

The riser height shall be measured vertically between the *nosings* of adjacent treads.

Rectangular tread depths shall be 11 inches minimum measured horizontally between the vertical planes of the foremost projection of adjacent treads and at a right angle to the tread's *nosing*

*Winder* treads shall have a minimum tread depth of 11 inches between the vertical planes of the foremost projection of adjacent treads at the intersections with the walkline and a minimum tread depth of 10 inches (254 mm) within the clear width of the *stair*.

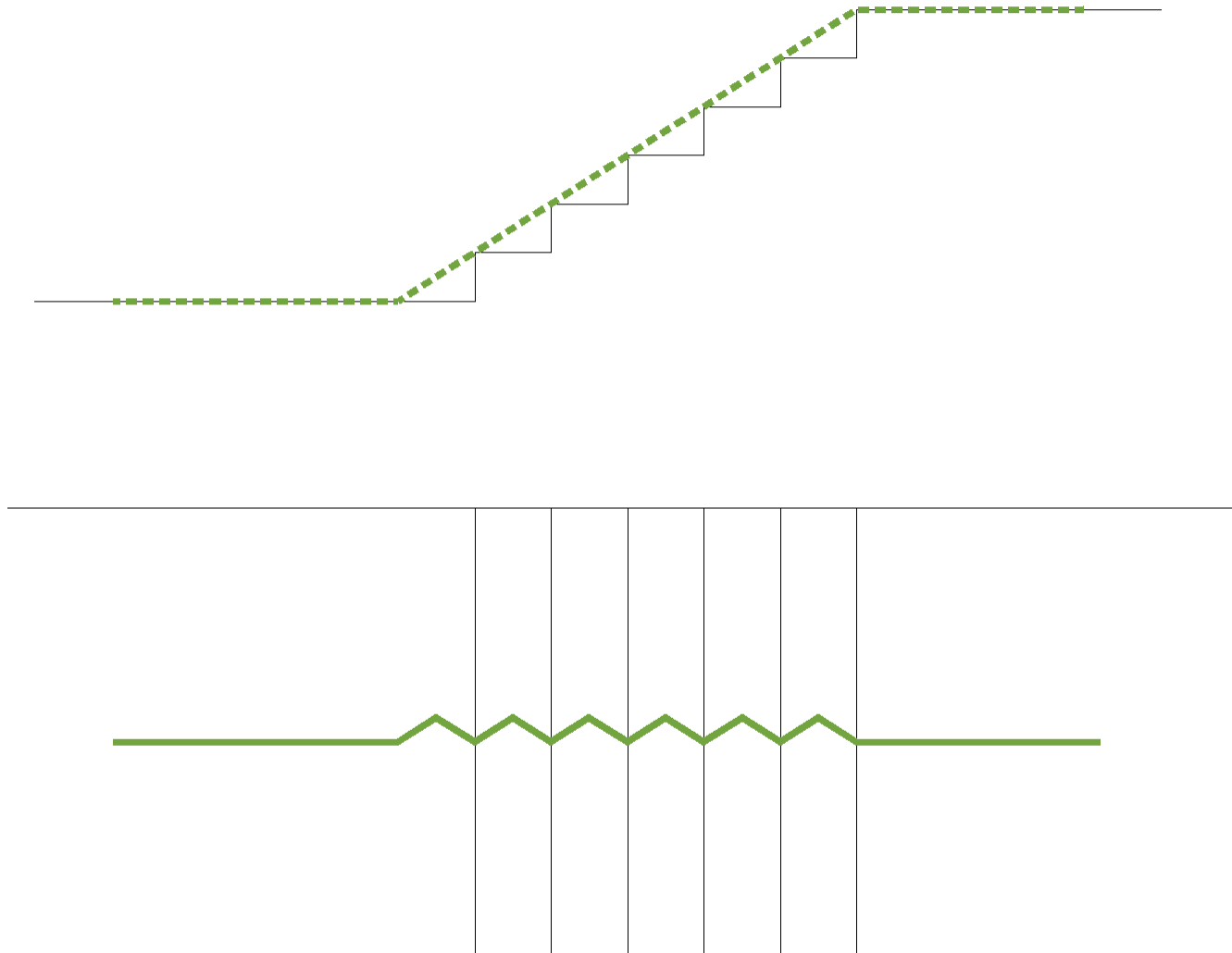
## SECTION 1017: EXIT ACCESS TRAVEL DISTANCE

**1017.3.1 Exit access stairways and ramps.** Travel distance on *exit access stairways* or *ramps* shall be included in the *exit access* travel distance measurement.

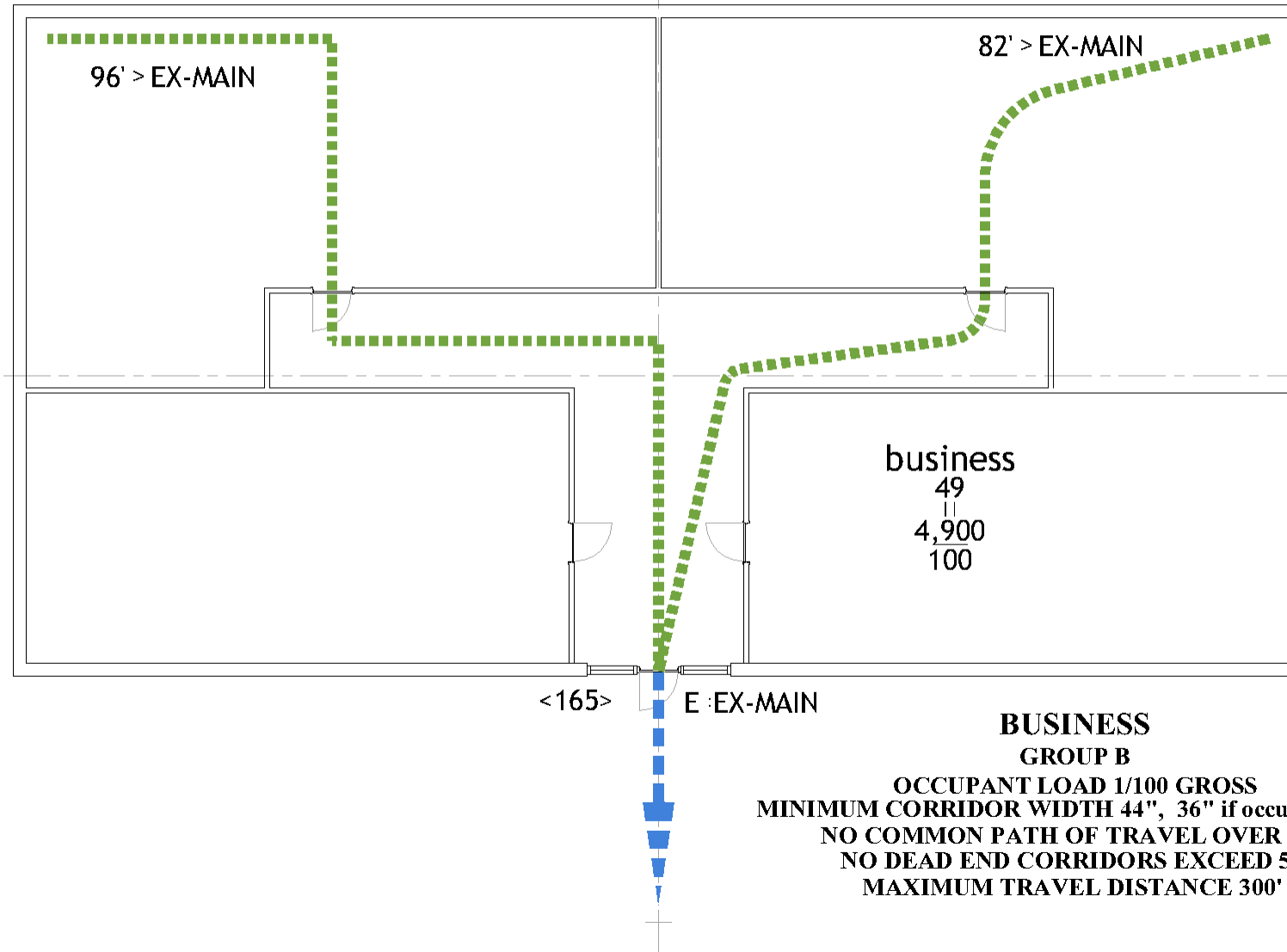
The measurement along *stairways* shall be made on a plane parallel and tangent to the *stair tread nosings* in the center of the *stair* and landings.

The measurement along *ramps* shall be made on the walking surface in the center of the *ramp* and landings.

## SECTION 1016 : EXIT ACCESS TRAVEL DISTANCE



**Measurement.** *Exit access* travel distance shall be measured from the most remote point of each room, area or space along the **natural and unobstructed** path of horizontal and vertical egress travel to the entrance to an *exit*.



**TABLE 1006.2.1  
SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY**

OCCUPANCY	MAXIMUM OCCUPANT LOAD OF SPACE	MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE (feet)		
		Without Sprinkler System (feet)		With Sprinkler System (feet)
		Occupant Load		
		OL ≤ 30	OL > 30	
A, <sup>c</sup> E, M	49	75	75	75 <sup>a</sup>
B	49	100	75	100 <sup>a</sup>
F	49	75	75	100 <sup>a</sup>
H-1, H-2, H-3	3	NP	NP	25 <sup>b</sup>
H-4, H-5	10	NP	NP	75 <sup>b</sup>
I-1, I-2, <sup>d</sup> I-4	10	NP	NP	75 <sup>a</sup>
I-3	10	NP	NP	100 <sup>a</sup>
R-1	10	NP	NP	75 <sup>a</sup>
R-2	49	NP	NP	125 <sup>a</sup>
R-3 <sup>e</sup>	49	NP	NP	125 <sup>a</sup>
R-4 <sup>e</sup>	20	75	75	125 <sup>a</sup>
S <sup>f</sup>	29	100	75	100 <sup>a</sup>
U	49	100	75	75 <sup>a</sup>

**TABLE 1017.2**  
**EXIT ACCESS TRAVEL DISTANCE<sup>a</sup>**

OCCUPANCY	WITHOUT SPRINKLER SYSTEM (feet)	WITH SPRINKLER SYSTEM (feet)
A, E, F-1, M, R	200	250 <sup>b</sup>
I-1	Not Permitted	250 <sup>b</sup>
B	200	300 <sup>c</sup>
F-2, S-2, U	300	400 <sup>c</sup>
H-1	Not Permitted	75 <sup>d</sup>
H-2	Not Permitted	100 <sup>d</sup>
H-3	Not Permitted	150 <sup>d</sup>
H-4	Not Permitted	175 <sup>d</sup>
H-5	Not Permitted	200 <sup>c</sup>
I-2, I-3, I-4	Not Permitted	200 <sup>c</sup>
S-1	200	400 <sup>b</sup>

## SECTION 1017 : EXIT ACCESS TRAVEL DISTANCE

**1017.2.1 Exterior egress balcony increase.** *Exit access* travel distances specified in Table 1017.2 shall be increased up to an additional **100** feet (30 480 mm) provided the **last portion** of the *exit access* leading to the *exit* occurs on an **exterior egress balcony** constructed in accordance with Section 1021.

The length of such balcony shall **not be less** than the **amount** of the **increase taken**.

## SECTION 1021 : EGRESS BALCONIES

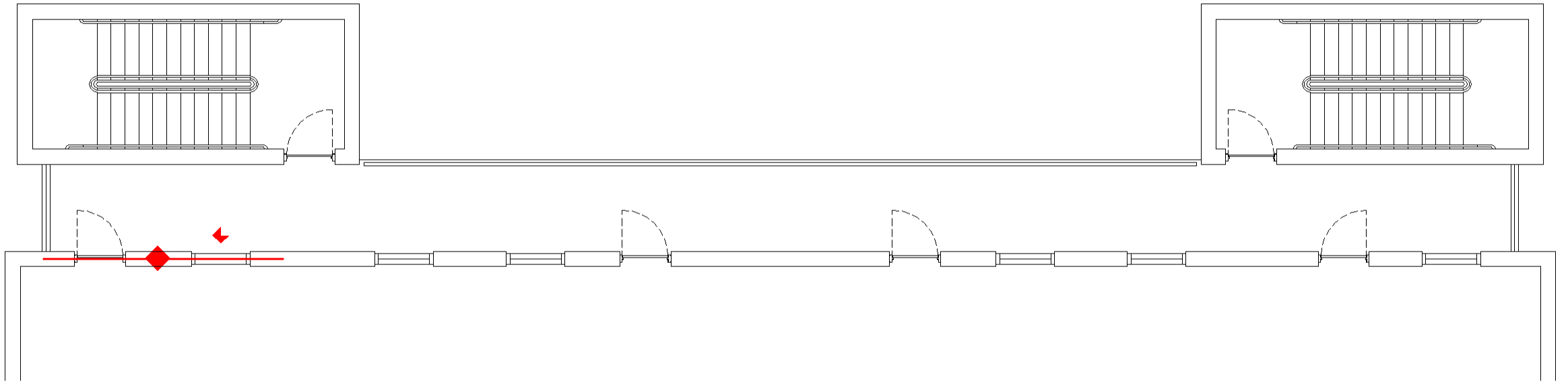
**1021.1 General.** Balconies used for egress purposes shall conform to the same requirements as corridors for width, required capacity headroom, dead ends and projections.

**1021.2 Wall separation.** Exterior egress balconies shall be separated from the interior of the building by walls and opening protectives as required for corridors.

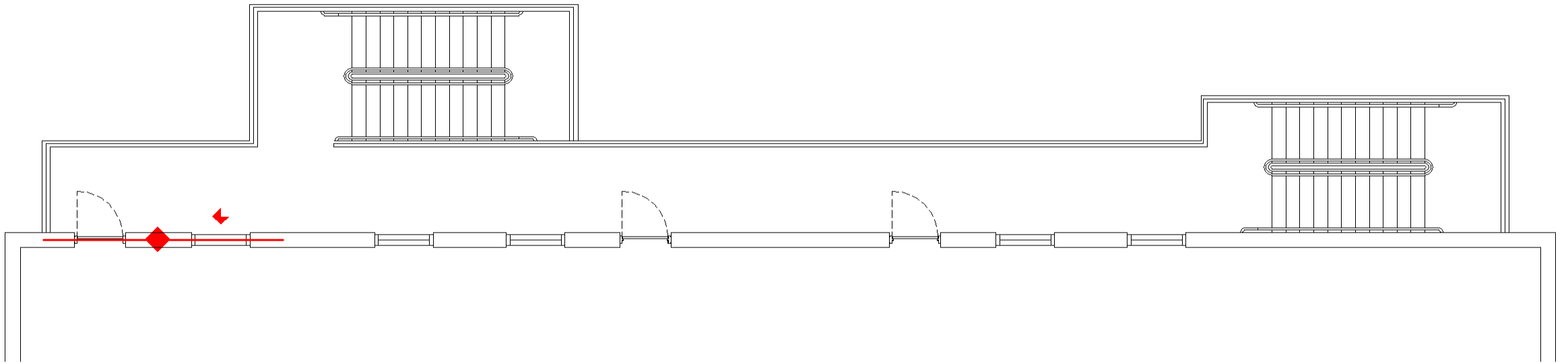
**Exception:** Separation is not required where the exterior egress balcony is served by at least two stairs and a dead-end travel condition does not require travel past an unprotected opening to reach a stairway.



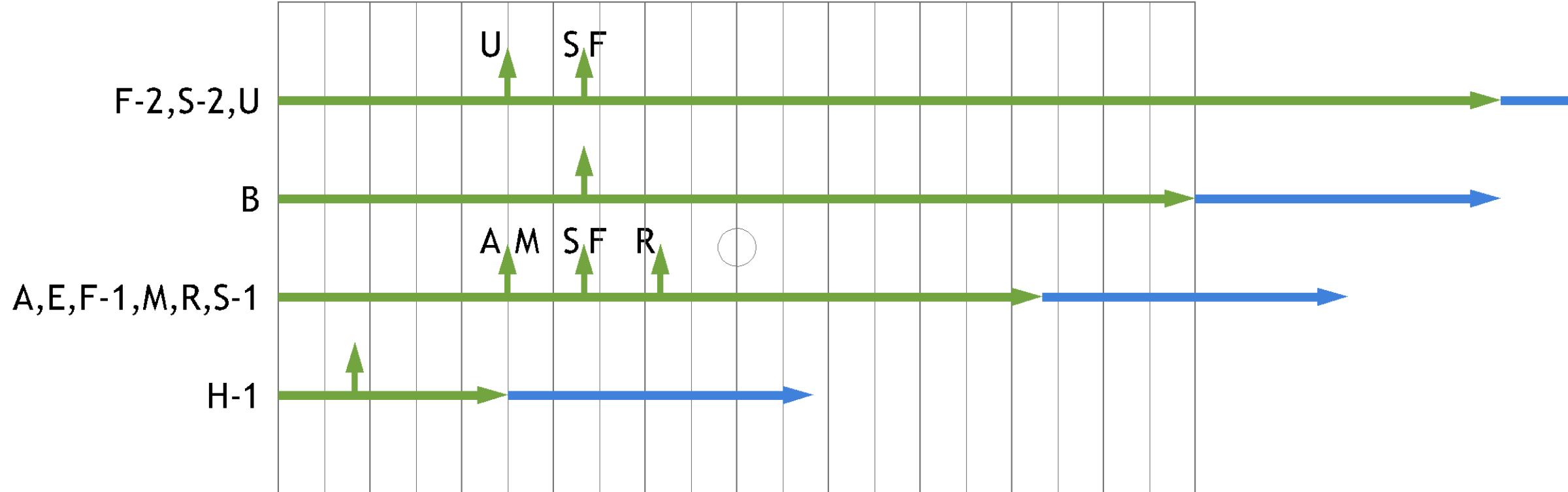
## SECTION 1021 : EGRESS BALCONIES



## SECTION 1027 : EXTERIOR EXIT STAIRWAYS AND RAMPS



## SECTION 1017 : EXIT ACCESS TRAVEL DISTANCE



## SECTION 1018 : AISLES

**AISLE.** An **unenclosed** *exit access* component that defines and provides a **path** of egress travel.

**AISLE ACCESSWAY.** That portion of an *exit access* that leads to an *aisle*.

**1018.1 General.** *Aisles* and *aisle accessways* serving as a portion of the *exit access* in the *means of egress* system shall comply with the requirements of this section. *Aisles* or *aisle accessways* shall be provided from all occupied portions of the *exit access* which contain **seats, tables, furnishings, displays and similar fixtures or equipment**. The required width of *aisles* shall be **unobstructed**.

**Exception:** Encroachments complying with Section 1005.7.

## SECTION 1020 : CORRIDORS

**CORRIDOR.** An **enclosed** *exit access* component that defines and provides a path of egress travel.

Exit access corridors shall provide access to not less than **two** approved exits, unless otherwise provided in 7.5.1.1.3 (*single*) and 7.5.1.1.4 (*common path*).

*FFPC 7.5.1.1.2*

Where exits are not immediately accessible from an open floor area, **continuous passageways, aisles, or corridors** leading directly to every exit shall be maintained and shall be arranged to provide access for each occupant to not less than two exits by separate ways of travel, unless otherwise provided in 7.5.1.1.3 (*single*) and 7.5.1.1.4 (*common path*).

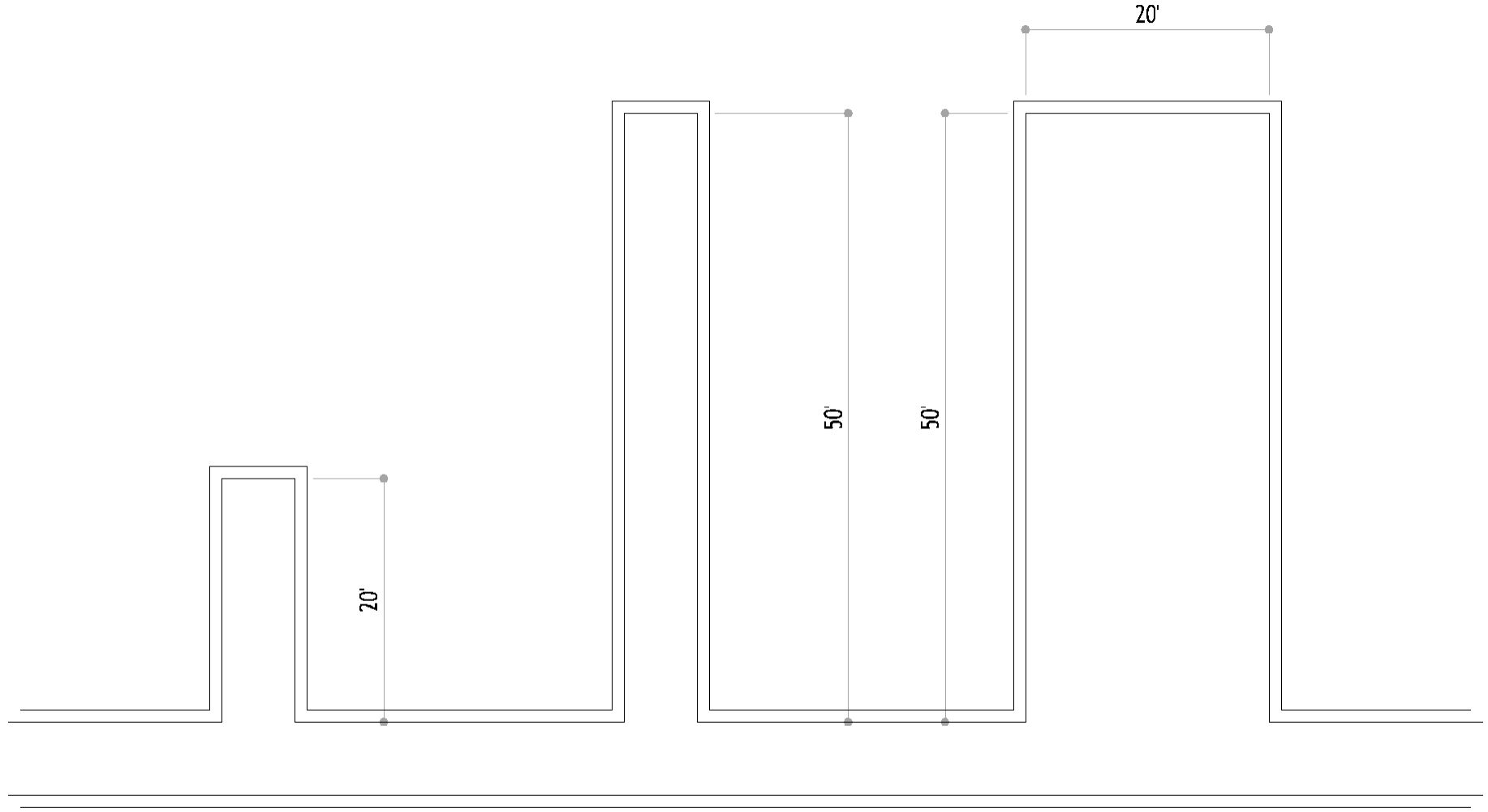
*FFPC 7.5.1.1.1*

## SECTION 1020 : CORRIDORS

**1020.4 Dead ends.** Where **more than one exit** or *exit access doorway* is **required**, the *exit access* shall be arranged such that there are no dead ends in *corridors* more than **20** feet in length.

### **Exceptions:**

1. In occupancies in Group **I-3** of Occupancy Condition 2, 3 or 4 (see Section 308.5), the dead end in a *corridor* shall not exceed 50 feet.
2. In occupancies in Groups **B, E, F, I-1, M, R-1, R-2, R-4, S** and **U**, where the building is equipped throughout with an *automatic sprinkler system* in accordance with Section 903.3.1.**1**, the length of the dead-end *corridors* shall not exceed **50** feet.
3. A dead-end *corridor* shall not be limited in length where the length of the dead-end *corridor* is less than 2.5 times the least width of the dead-end *corridor*.



dead end

exceptions 1 & 2

exception 3

## SECTION 1020 : CORRIDORS

**1020.6 Corridor continuity.** Fire-resistance-rated *corridors* shall be **continuous** from the point of entry **to an exit**, and shall not be interrupted by intervening rooms.

Where the path of egress travel within a fire-resistance-rated *corridor* to the *exit* includes travel along **unenclosed exit access stairways** or *ramps*, the *fire resistance-rating* shall be **continuous for the length of the stairway** or *ramp* and for the **length of the connecting corridor** on the adjacent floor leading to the *exit*.

### **Exceptions:**

- 1. Foyers, lobbies or reception rooms** constructed as required for *corridors* shall not be construed as intervening rooms.
- 2.** Enclosed elevator lobbies as permitted by Item 1 of Section 1016.2 shall not be construed as intervening rooms.



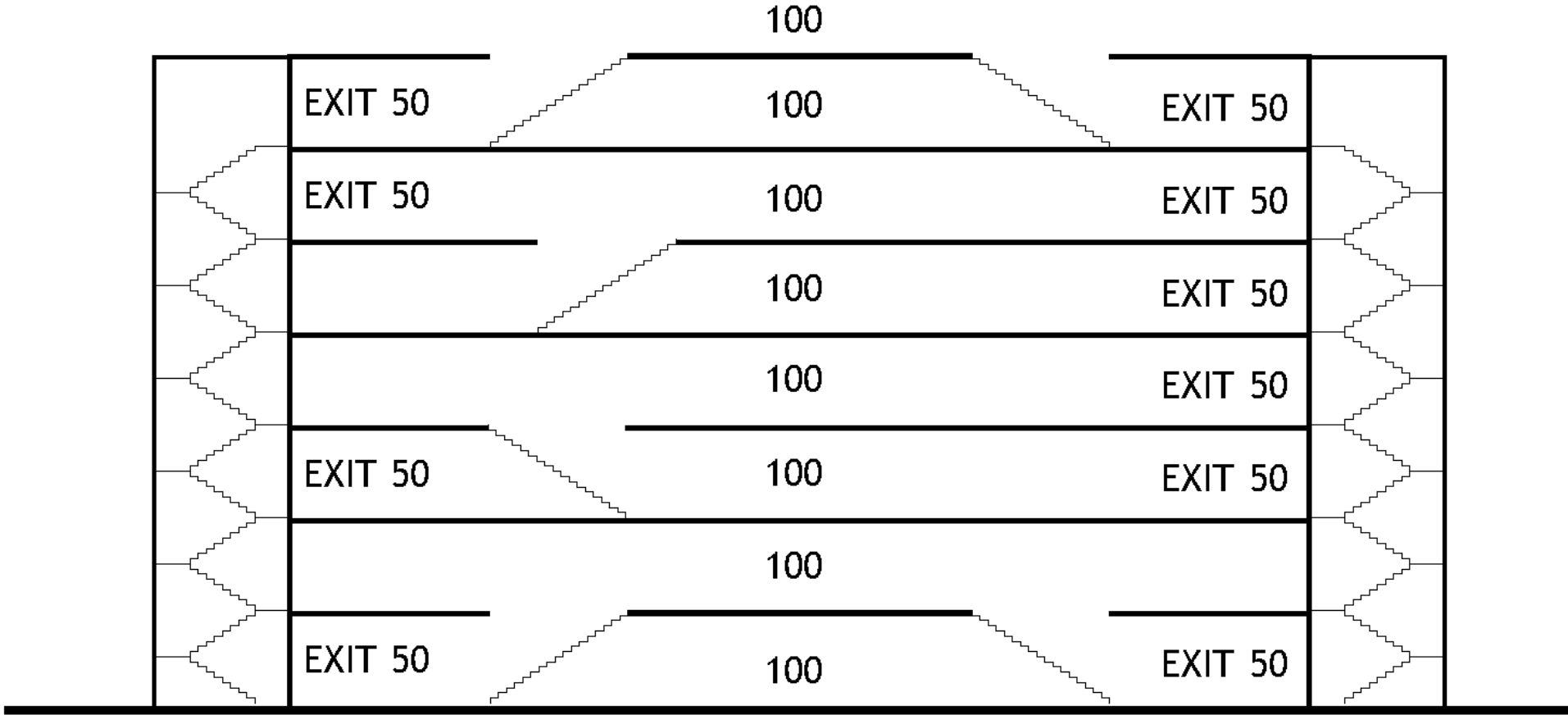
## SECTION 1004 : OCCUPANT LOAD

**1004.4 Multiple occupancies.** Where a building contains two or more occupancies, the *means of egress* requirements shall apply to **each portion** of the building based on the **occupancy of that space**

Where two or more occupancies utilize portions of the same *means of egress* system, those **egress components** shall meet the **more stringent** requirements of all occupancies that are served.

**1006.3 Egress from stories or occupied roofs.** The *means of egress* system serving any *story* or occupied roof shall be provided with the number of separate and distinct exits or access to *exits* based on the aggregate *occupant load* served in accordance with this section. Where stairways serve more than one story, only the occupant load of each story considered individually shall be used in calculating the required number of exits or access to exits serving that story.

**1006.3.1 Adjacent story.** The path of egress travel to an exit shall not pass through more than one adjacent story.



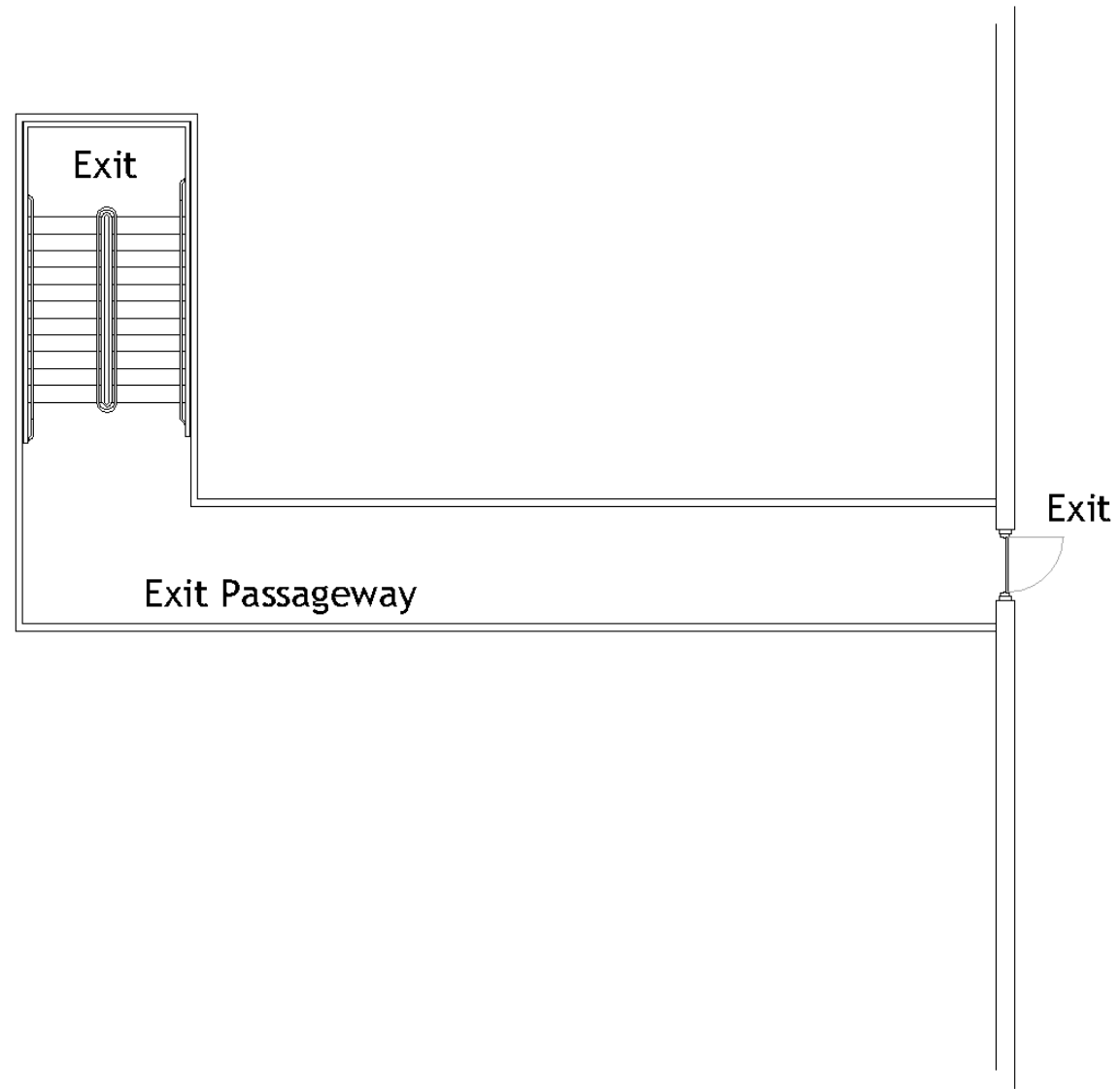


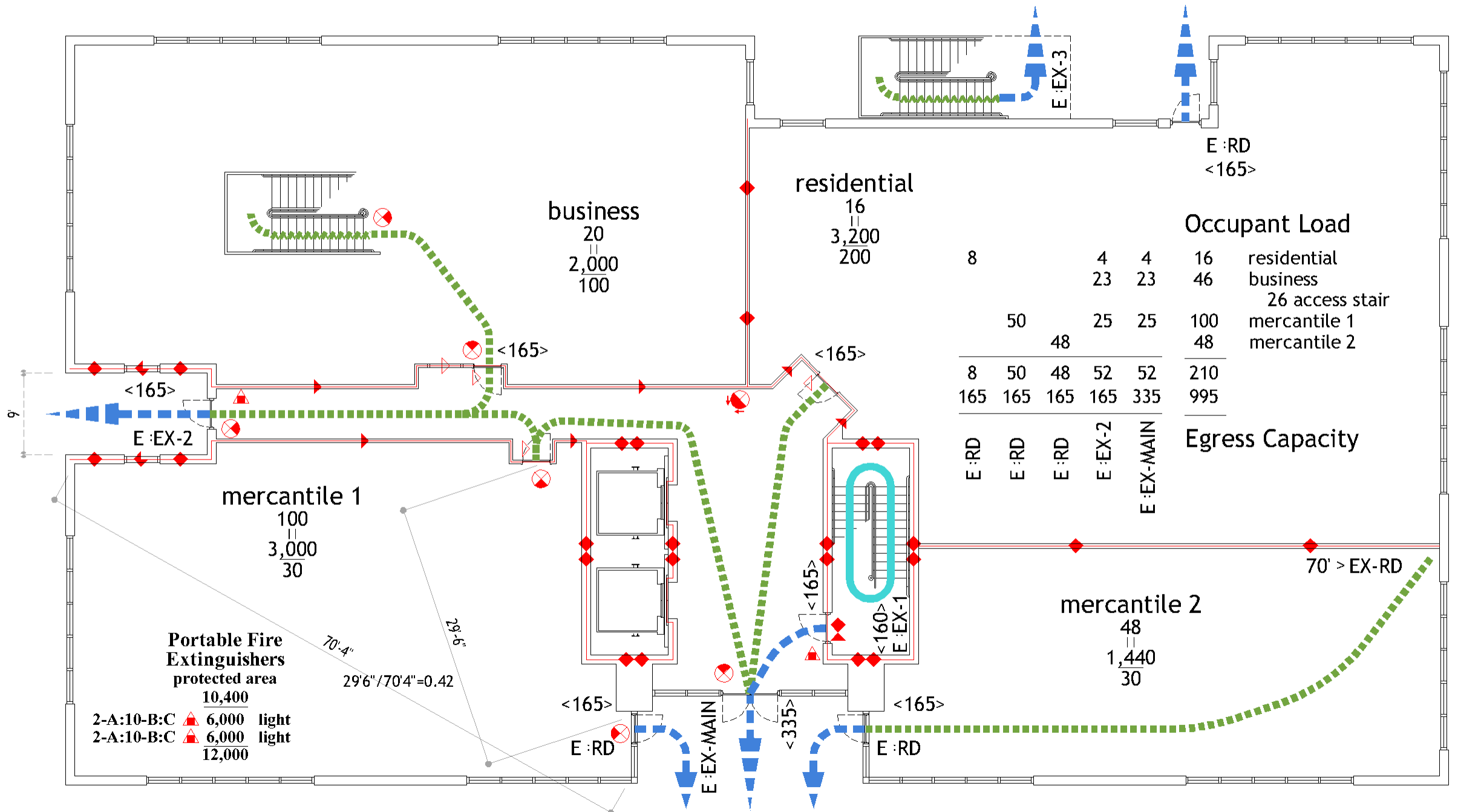
## CHAPTER 11

# ACCESSIBILITY

**1101.1 Scope.** This chapter governs the design and construction of buildings for accessibility.

**1101.1.1 Criteria.** Buildings shall be designed and constructed in accordance with the *Florida Building Code, Accessibility*.





Occupant Load

8	4	4	16	residential
	23	23	46	business
			26	access stair
50	25	25	100	mercantile 1
	48		48	mercantile 2
8	50	48	52	
165	165	165	335	

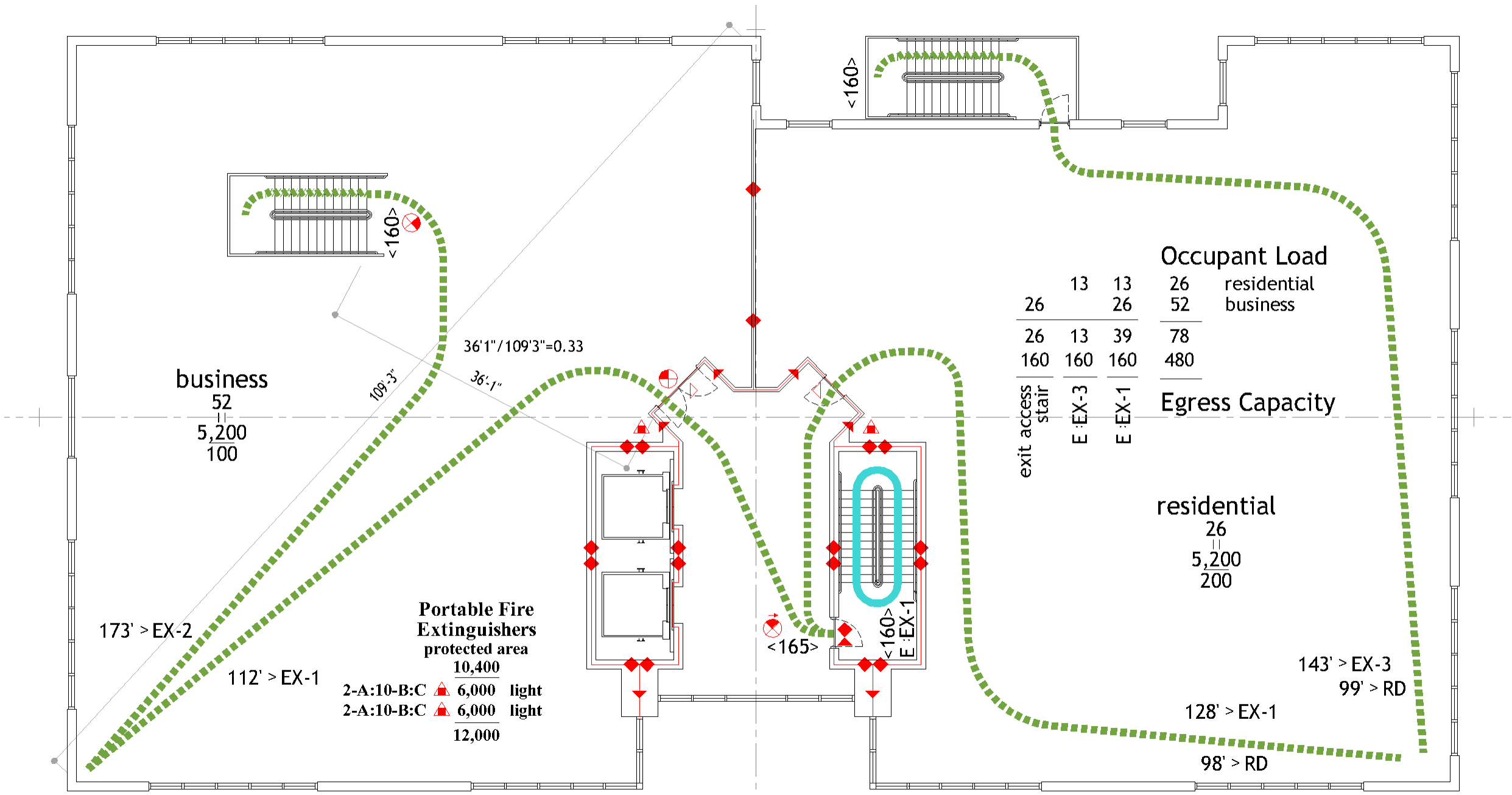
Egress Capacity

E:RD	E:RD	E:RD	E:EX-2	E:EX-MAIN
8	50	48	52	52
165	165	165	165	335

Portable Fire Extinguishers  
protected area  
10,400

2-A:10-B:C ▲ 6,000 light  
2-A:10-B:C ▲ 6,000 light  
12,000

First Floor



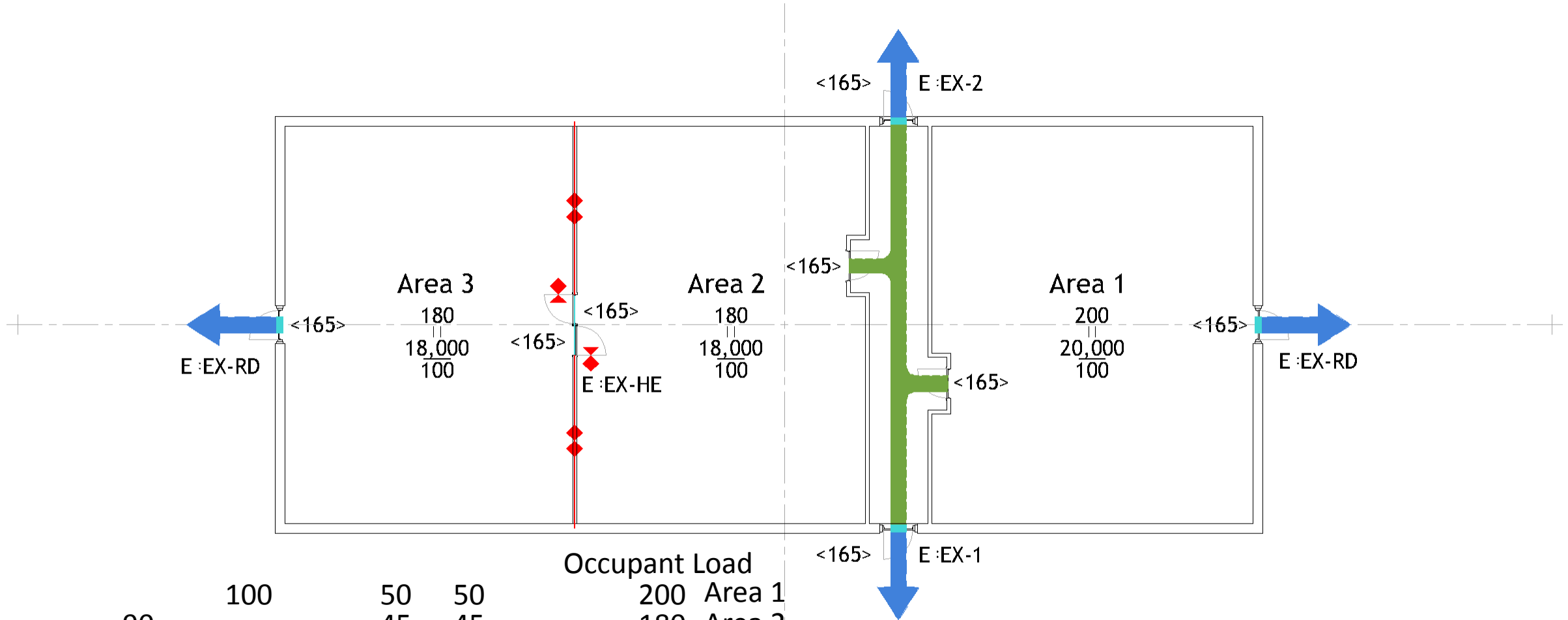
Second Floor







**HORIZONTAL EXIT.** An exit component consisting of fire-resistance-rated construction and opening protectives intended to compartmentalize portions of a building **or another building** thereby creating refuge areas that afford safety from the fire and smoke from the area of origin.



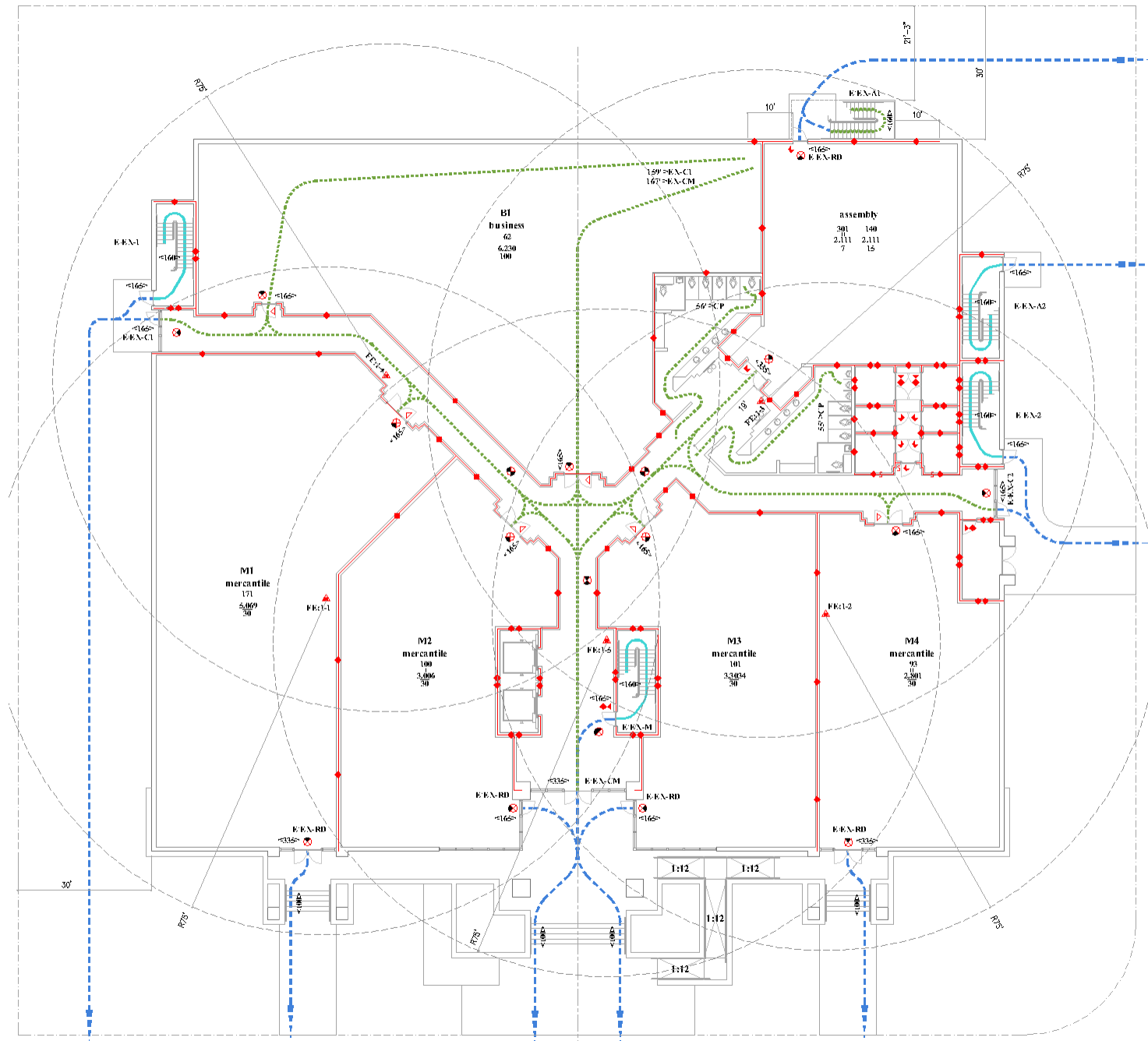
Occupant Load

200	Area 1
180	Area 2
180	Area 3

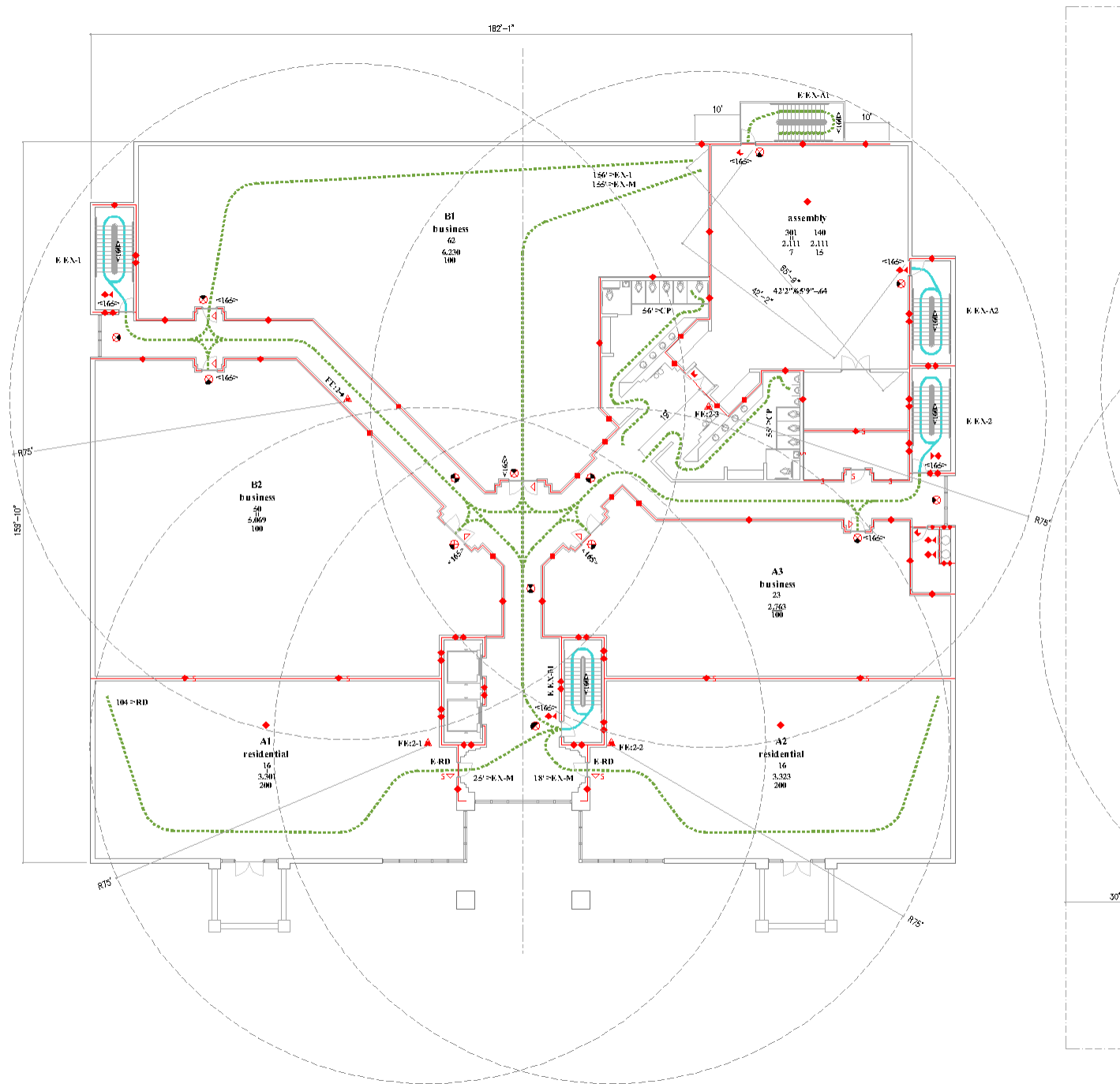
90	100	50	50	200
90		45	45	180
	90			180
90	100	90	95	560
165	165	165	165	825
EX:HE	EX:RD	EX:RD	EX:2	EX:1

Egress Capacity





First Story above Grade  
1/16"=1'



**Second Story**  
1/16"=1'

**MIXED USE BUILDING**  
**Business, Residential, Assembly, Mercantile**  
**TYPE II-B**  
**Automatic Sprinkler System**  
**4 STORIES**  
**60' HIGH**

**FLORIDA FIRE PREVENTION CODE 7th Edition (2020)**

12/31/2020  
**N.F.P.A. 101 2018**  
as modified by  
Florida Administrative Code Chapter 69A-60  
EGRESS WIDTH PER PERSON: LEVEL 0.2 : STAIR 0.3  
MINIMUM STAIR WIDTH 44" if occupancy < 50 then 36"

**ASSEMBLY**

Chapter 12  
OCCUPANT LOAD = 1/15 NET  
Concentrated = 1/7  
Kitchen = 1/100  
Pool area = 1/50  
Pool Deck = 1/30  
Fitness w/cqpt = 1/50

MINIMUM CORRIDOR WIDTH 44", if occupancy < 50 then 36"  
NO COMMON PATH OF TRAVEL OVER 20' : 75' if OCCUPANCY < 50  
NO DEAD END CORRIDORS EXCEED 20'  
MAXIMUM TRAVEL DISTANCE 250'

**RESIDENTIAL APARTMENT**

Chapter 30

OCCUPANT LOAD 1/200 GROSS  
MINIMUM CORRIDOR WIDTH 44", if occupancy < 50 then 36"  
MAXIMUM TRAVEL DISTANCE WITHIN UNIT 125'  
COMMON PATH OF TRAVEL outside UNIT 50'  
NO DEAD END CORRIDORS EXCEED 50'  
MAXIMUM TRAVEL DISTANCE FROM DWELLING DOOR 200'  
MAXIMUM TRAVEL DISTANCE FROM NON-DWELLING 250'

**MERCANTILE**

Chapter 36

Class A : >30,000sf or >3 stories  
Class B : >3,000sf, <30,001sf <4 stories  
Class C : <3,001sf, 1 story  
OCCUPANT LOAD STREET 1/30 GROSS  
OCCUPANT LOAD 1/60 GROSS  
MINIMUM CORRIDOR WIDTH 44", if occupancy < 50 then 36"  
NO COMMON PATH OF TRAVEL OVER 100'  
NO DEAD END CORRIDORS EXCEED 50'  
MAXIMUM TRAVEL DISTANCE 250'

**BUSINESS**

Chapter 38

OCCUPANT LOAD 1/100 GROSS  
MINIMUM CORRIDOR WIDTH 44", 36" if occupancy < 50  
NO COMMON PATH OF TRAVEL OVER 100'  
NO DEAD END CORRIDORS EXCEED 50'  
MAXIMUM TRAVEL DISTANCE 300'

**FLORIDA BUILDING CODE 7th Edition (2020)**

12/31/2020  
\*  
EGRESS WIDTH PER PERSON: LEVEL 0.2 : STAIR 0.3  
MINIMUM STAIR WIDTH 44" if occupancy < 50 : then 36"

**ASSEMBLY**

GROUP A  
OCCUPANT LOAD = 1/15 NET  
Concentrated = 1/7  
Kitchen = 1/200  
Pool area = 1/50  
Pool Deck = 1/15  
Fitness w/cqpt = 1/50

MINIMUM CORRIDOR WIDTH 44", if occupancy < 50 then 36"  
NO COMMON PATH OF TRAVEL OVER 75'  
NO DEAD END CORRIDORS EXCEED 20'  
MAXIMUM TRAVEL DISTANCE 250'

**RESIDENTIAL**

GROUP R2

OCCUPANT LOAD 1/200 GROSS  
MINIMUM CORRIDOR WIDTH 44", if occupancy < 50 then 36"  
COMMON PATH OF TRAVEL 125'  
NO DEAD END CORRIDORS EXCEED 50' : 20' NFPA 13-R  
MAXIMUM TRAVEL DISTANCE 250'

**MERCANTILE**

GROUP M

OCCUPANT LOAD STREET 1/30 GROSS  
OCCUPANT LOAD 1/60 GROSS  
MINIMUM CORRIDOR WIDTH 44", 36" if occupancy < 50  
NO COMMON PATH OF TRAVEL OVER 75'  
NO DEAD END CORRIDORS EXCEED 50'  
MAXIMUM TRAVEL DISTANCE 250'

**BUSINESS**

GROUP B

OCCUPANT LOAD 1/100 GROSS  
MINIMUM CORRIDOR WIDTH 44", 36" if occupancy < 50  
NO COMMON PATH OF TRAVEL OVER 100'  
NO DEAD END CORRIDORS EXCEED 50'  
MAXIMUM TRAVEL DISTANCE 300'

# LIFE SAFETY SYMBOLS

NFPA 170

## E-\$ EGRESS COMPONENT IDENTIFIER

EX# = EXIT ID  
EA# = EXIT ACCESS ID  
HE = HORIZONTAL EXIT  
CP = COMMON PATH OF TRAVEL  
PD = PUBLIC DISCHARGE  
RD = ROOM DOOR  
ES = ESCAPE

## 00 > \$\$ TRAVEL DISTANCE SYMBOL

EGRESS COMPONENT  
DISTANCE TO

## <00> EGRESS COMPONENT CAPACITY <<00>> GOVERNING COMPONENT CAPACITY

CAPACITY

## 000 OCCUPANCY CAPACITY SYMBOL

SQUARE FEET PER PERSON  
NET AREA (SQUARE FEET)

FFPC=FLORIDA FIRE PREVENTION CODE  
FBC=FLORIDA BUILDING CODE

## CODE SECTION GOVERNING CODE REFERENCE



EXIT ACCESS



EXIT



EXIT DISCHARGE



= 20 MIN RATED



= 30 MIN RATED



= 45 MIN RATED



= 1 HOUR



= 1.5 HOUR



= 2 HOUR

etc.

Wall Ratings shown are for  
Life Safety Plan requirements.  
Not for Building Type/Shafts.



1 HOUR RATED WALL



2 HOUR RATED WALL



FIRE WALL



SMOKE PROTECTION



3/4 HOUR RATED



1 1/2 HOUR RATED

PH

PANIC HARDWARE



FIRE EXTINGUISHER



EXIT SIGN



EXIT SIGN with Emergency Lights



EMERGENCY LIGHT



MANUAL PULL STATION



HORN/VISIBLE



PRESSURIZED



FIRE SERVICE ACCESS ELEVATOR



FIRE TEST ID



					First Story non-separated Mixed Occupant Load				
85	50	50	47	150	29	29	29	171	M1
					16	16	16	100	M2
					16	16	16	101	M3
					15	15	15	93	M4
					21	21	21	62	B4
					50	50	50	301	Assembly
85	50	50	46	150	147	147	147	441	Egress Capacity
335	165	165	335	165	165	335	665		
E:EX-M1 RD	E:EX-M2 RD	E:EX-M2 RD	E:EX-M1 RD	E:EX-A RD	E:EX-C1	E:EX-C2	E:EX-CM		

Second Story non-separated Mixed Occupant Load				
21	21	21	62	B1
16	16	16	50	B2
16	16	16	23	B3
15	15	15	16	R1
21	21	21	16	R2
<hr/>			291	Egress Capacity
97	97	97	480	
160	160	160		
E:EX-1	E:EX-2	E:EX-M		

Second Story Separated Assembly			
151	151	301	Assembly
151	151	302	Egress Capacity
160	160	320	
E:EX-A1	E:EX-A2		

## Portable Fire Extinguishers

### First Story protected area 29,194

FE:2-1	2A-10B:C	▲ 6,000	light
FE:2-2	2A-10B:C	▲ 6,000	light
FE:2-3	4A-80B:C	▲ 11,250	light
FE:2-4	4A-80B:C	▲ 11,250	light
		<hr/>	
		34,500	

### Second Story protected area 29,194

FE:2-1	4A-80B:C	▲ 6,000	ordinary
FE:2-2	4A-80B:C	▲ 6,000	light
FE:2-3	4A-80B:C	▲ 11,250	light
FE:2-4	4A-80B:C	▲ 11,250	light
FE:2-5	4A-80B:C	▲ 6,000	light
		<hr/>	
		40,500	

## BOAF-AIA-FES Joint Task Force

This demo drawing does not demonstrate Building Code requirements.  
This drawing demonstrates how to show a designs Building Code compliance.

# Life Safety Plan Demo

updated 10/10/2019  
5/24/2011



# QUESTIONS

annex

EVACUATION PLANS

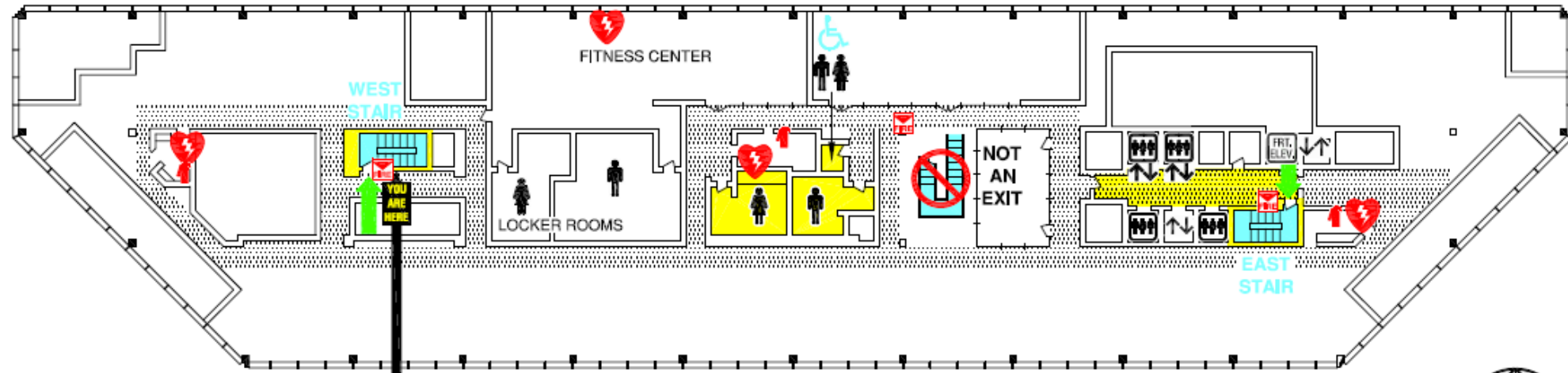
[brad@TAXIS-usa.com](mailto:brad@TAXIS-usa.com)

239.254.0285

# TRAVELERS TOWER I I


TENTH FLOOR

EVACUATION PLAN



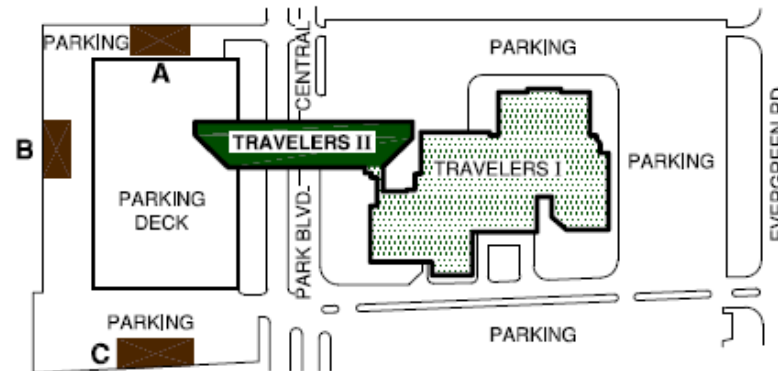
EMERGENCY PHONE  
**DIAL 911**

## EMERGENCY GUIDELINES







- FAMILIARIZE YOURSELF WITH ALL  **EXITS**.
- KNOW WHERE THE FIRE ALARM PULL BOXES AND FIRE EXTINGUISHERS ARE LOCATED.
- BUILDING EVACUATION** - WHEN HORN / STROBE SOUNDS, EVACUATE BUILDING AND PROCEED TO A DESIGNATED OUTSIDE ASSEMBLY AREA.
- SEEK SHELTER** - IN CASE OF TORNADO OR SEVERE WEATHER, UTILIZE THE DESIGNATED SHELTER AREAS. (ENCLOSED/ WINDOWLESS STAIRWAYS / RESTROOMS & CONFERENCE ROOMS)
- ALL CLEAR** - FOLLOW INSTRUCTIONS GIVEN BY MANAGEMENT.
- DO NOT USE THE ELEVATOR(S) DURING EVACUATIONS.**

**YOU  
ARE  
HERE**

## SITE PLAN

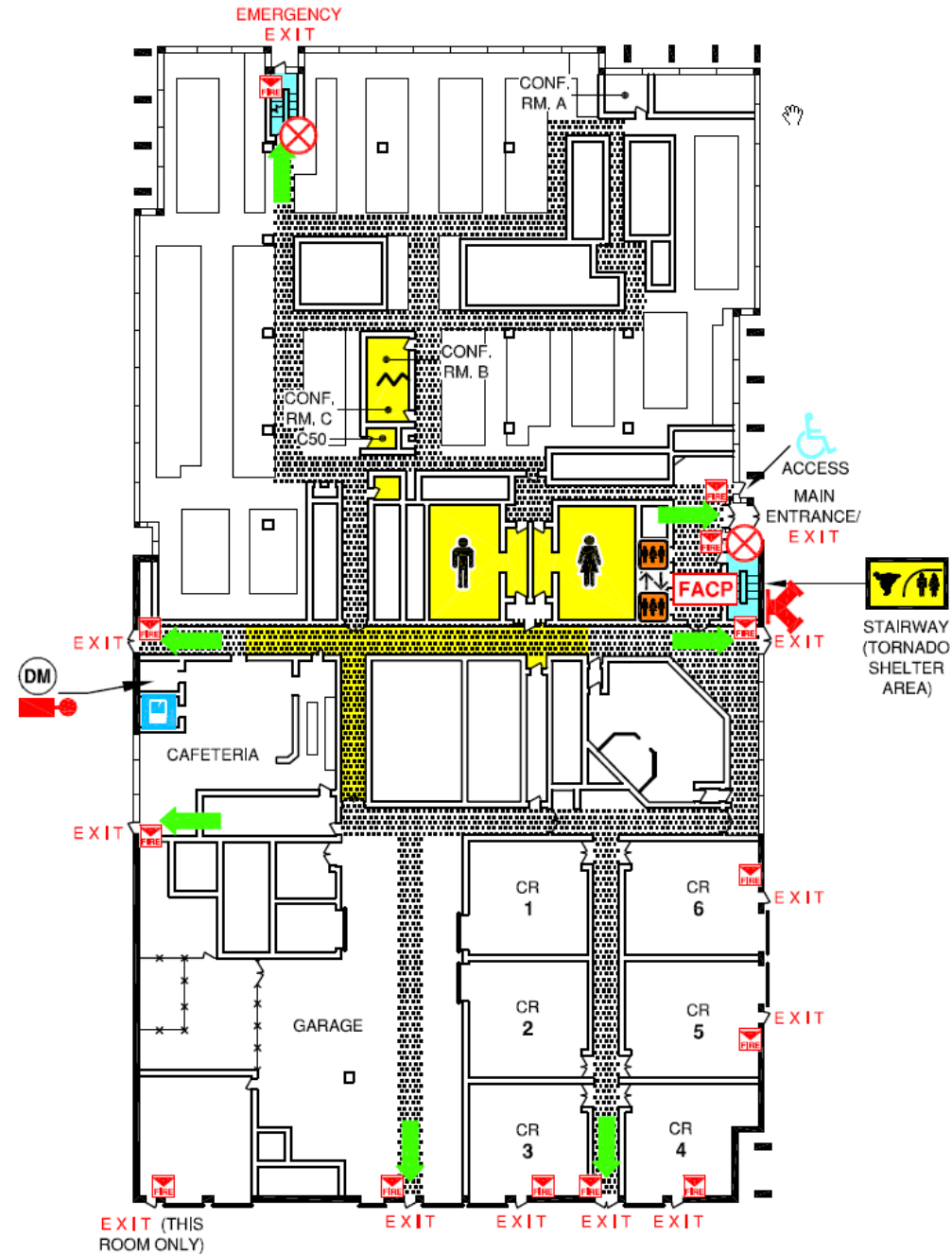


## KEY

-  FIRE ALARM PULL BOX
-  FIRE EXTINGUISHER
-  AUTOMATIC EXTERNAL DEFIBRILLATOR
-  OUTSIDE ASSEMBLY AREA
-  TORNADO SHELTER AREA
-  STAIRWAY

# EMERGENCY RESPONSE MAP

FIRST FLOOR - INTERIOR



# EVACUATION PLAN

**MINI-SAMPLE**  
- FOR PRESENTATION ONLY -  
This copyrighted sample is for  
customer use only. **DO NOT**  
distribute to other contractors.

