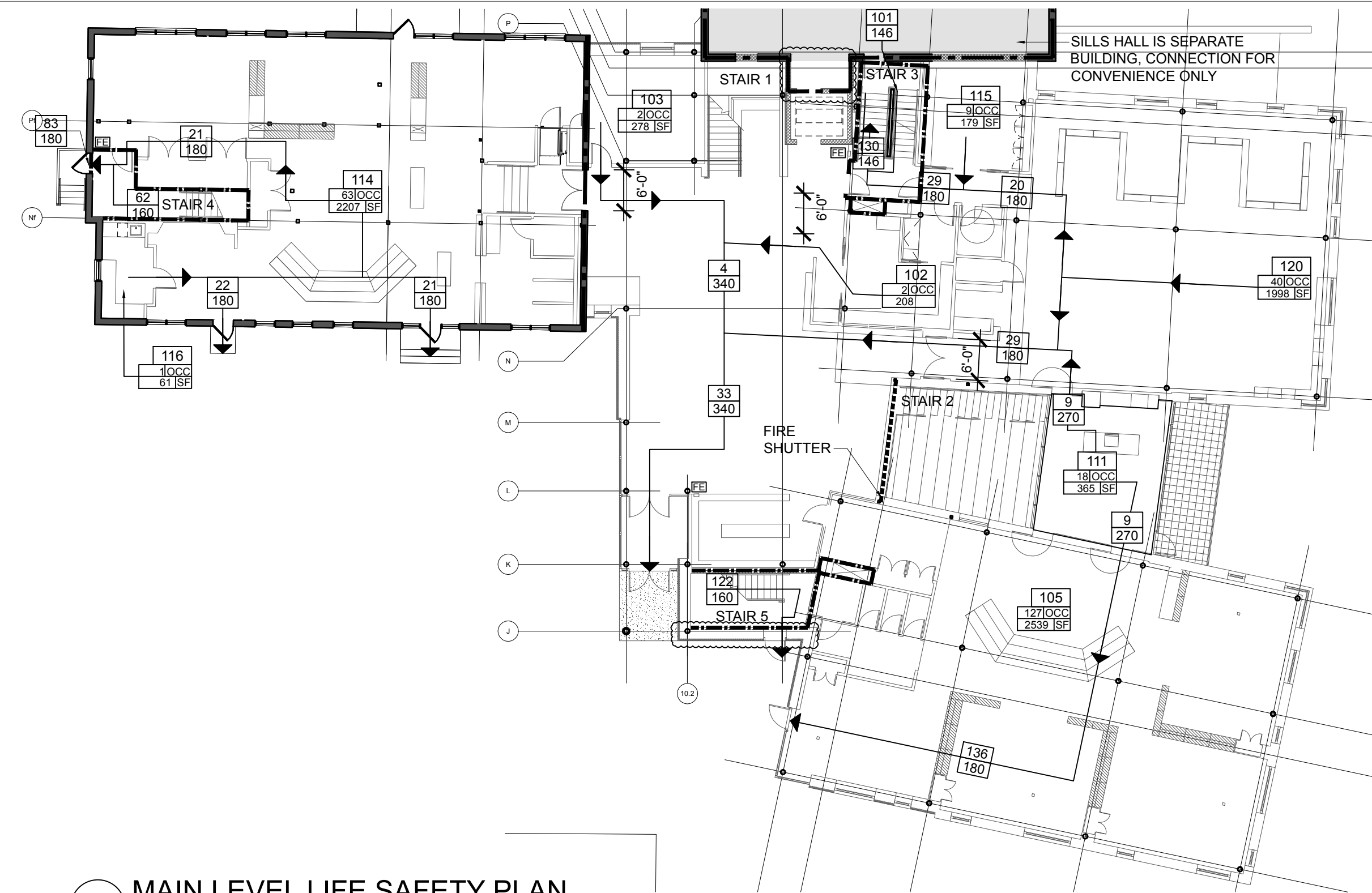
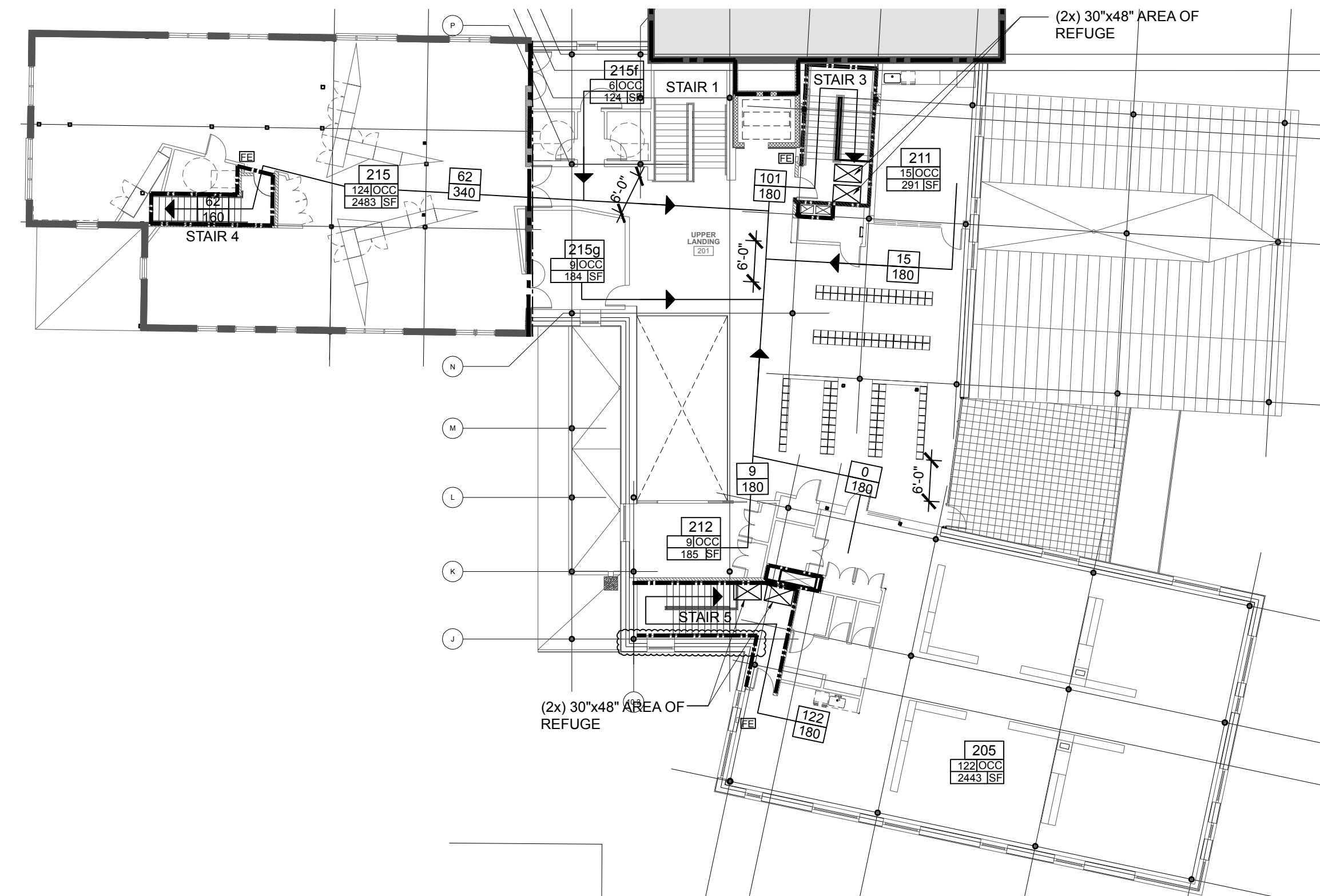
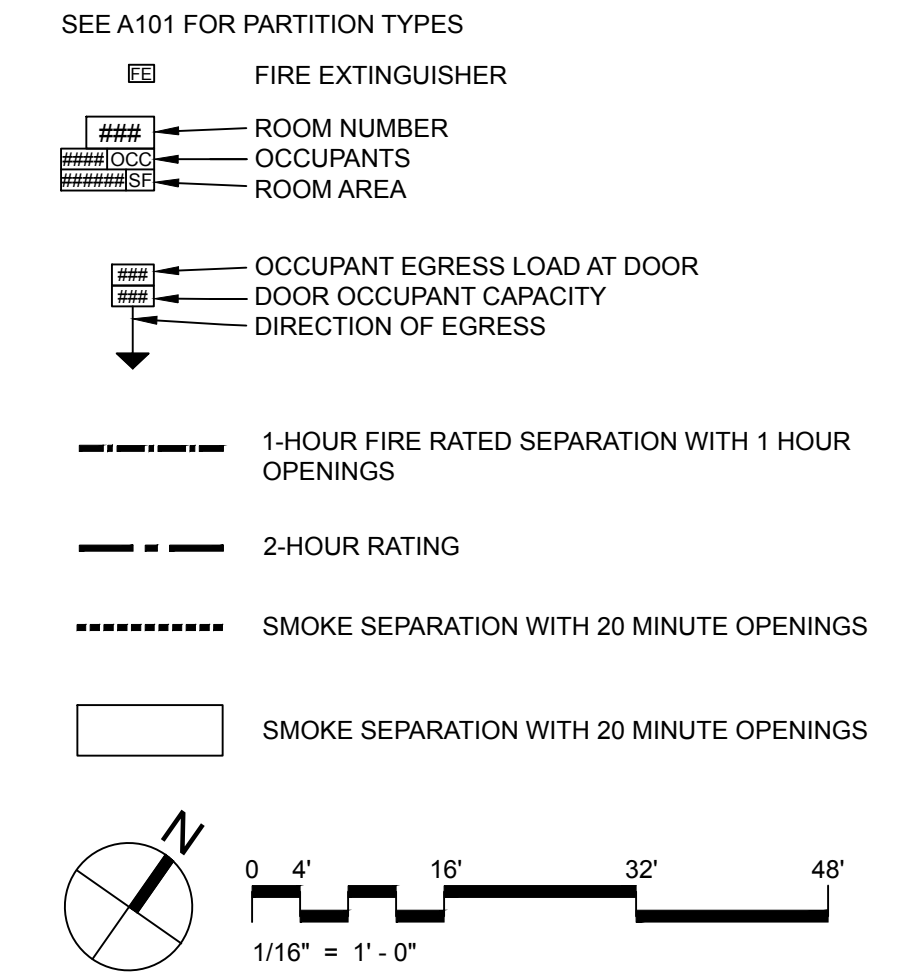


1 LOWER LEVEL LIFE SAFETY PLAN
SCALE: 1/16" = 1'-0" TOTAL OCCUPANCYLOAD: 142 PPL



2 MAIN LEVEL LIFE SAFETY PLAN
SCALE: 1/16" = 1'-0" TOTAL OCCUPANCYLOAD: 261 PPL

LIFE SAFETY PLAN LEGEND



3 UPPER LEVEL LIFE SAFETY PLAN
SCALE: 1/16" = 1'-0" TOTAL OCCUPANCYLOAD: 285 PPL

CODE SUMMARY

APPLICABLE CODES

Maine Uniform Building and Energy Code "MUBEC"
Consists of the following applicable codes:

- 2009 International Building Code (IBC)
- 2009 International Existing Building Code (IEBC)
- 2009 International Energy Conservation Code (IECC)
- 2007 ASHRAE 62.1 (Ventilation for Acceptable Indoor Air Quality)
- 2007 ASHRAE 90.1 - (Energy Standard for Buildings except Low-Rise Residential Buildings) editions without addenda.
- E-1465-2006, Standard Practice for Radon Control Options for the Design and Construction of New Low-Rise Residential Buildings.
- Maine State Internal Plumbing Code based on the 2009 Uniform Plumbing Code
- State of Maine Subsurface Wastewater Disposal Rules Version dated: Jan 18, 2011
- 2011 National Electrical Code (NEC)

Portland City Code, Chapter 10: Fire Prevention and Protection

Fire/ Life Safety

NFPA Life Safety Code as adopted by the State of Maine
Including but not limited to:

- 2009 NFPA 001: Fire Code
- 2009 NFPA 101: Life Safety Code
- 2016 NFPA 13: Installation of Sprinkler Systems, [2010 Edition through Equivalency]

Accessibility

2010 ADA Standards for Accessible Design

NOTE: All Codes shall include changes/amendments by the State of Maine

OCCUPANCY CLASSIFICATION (IBC Sec 302, 303, 304, 508.2) (NFPA 101)

- Assembly A-3
- Business B [Accessory Occupancy <10% of building area]
- Educational E
- Storage S-1, S-2

AUTOMATIC SUPPRESSION SYSTEM (NFPA 13)

Automatic sprinkler system provide per NFPA 13 throughout

GENERAL BUILDING INFORMATION AND ALLOWABLE BUILDING HEIGHTS AND AREA (IBC Chapter 5, Table 503) (NFPA)

Building Height (To mid-height of the roof) - 2 Stories
Total Area 35,079
Perimeter 469'

Allowable Building Height
55' Maximum + 20' (Sprinkler Benefit) = 75'
2 Stories Maximum + 1 (Sprinkler Benefit) = 3 Stories

	OCCUPANCY (PER IBC CHAPTER 3)	CONSTRUCTION TYPE (PER IBC CHAPTER 6)	ALLOWABLE AREA (IBC TABLE 503 MODIFIED PER IBC 506)	ACTUAL AREA NEW	ACTUAL AREA RENOVATED
LOWER LEVEL	A-3	IIB	28,000 ALLOWABLE	9,426 NEW	955 RENO.
GROUND FLOOR LEVEL	A-3	IIB	28,000 ALLOWABLE	10,495 NEW	3,193 RENO.
UPPER FLOOR	A-3	IIB	28,000 ALLOWABLE	8,058 NEW	2,952 RENO.

Building Area Modifications
(IBC Sec 506.1, 506.2, 506.3)

Automatic Sprinkler Increase (IBC 506.3)
Taken; 200% Increase

REQUIRED OCCUPANCY SEPARATIONS
(IBC Table 508.4)

- (NFPA)
- A-3 to E (None)
- A,E to B 1 HR
- A,E to S-1 1 HR
- A,E to S-2 0 HR

TYPES OF CONSTRUCTION
(IBC Table 601, Sec 602)

(NFPA 220)
Type IIB

FIRE RESISTIVE RATINGS
(IBC Table 601), (NFPA Table A.8.2.1.2)

	TYPE IIB	II (0,0,0)
STRUCTURAL FRAME	0	0
BEARING WALLS, EXTERIOR AND INTERIOR	0	0
NON-BEARING WALLS AND PARTITIONS, EXTERIOR	0	0
NON-BEARING WALLS AND PARTITIONS, INTERIOR	0	0
FLOOR CONSTRUCTION AND SECONDARY MEMBERS	0	0
ROOF CONSTRUCTION AND SECONDARY MEMBERS	0	0

OCCUPANCY LOAD
(IBC Table 1004.1.1), (NFPA 101 Table 7.3.1.2)

- Business B 100 Gross Sqft per Occupant
- Assembly A-3 20 Net Sqft per Occupant
- Classroom 35 Net Sqft per Occupant
- Gym 7 Net Sqft per Occupant
- Exercise Rooms 50 Gross Sqft per Occupant
- Locker Rooms 50 Gross Sqft per Occupant
- Accessory Storage 300 Gross Sqft per Occupant
- Mechanical 300 Gross Sqft per Occupant
- Stage 15 Net Sqft per Occupant
- Storage 300 Gross Sqft per Occupant

MEANS OF EGRESS
(IBC Chapter 10, NFPA 101 Chapter 7.14.15)

EGRESS WIDTH PER OCCUPANT
(IBC 1005.1)

(IEBC Table 1301.6.11(1))
0.3 inches per occupant for stairways
0.2 inches for other egress components

STAIRWAY WIDTH
(IEBC 1301.6.11), (NFPA 101 Table 7.2.2.2.1.2(B), 7.3.3.1.2)

0.3 inches per occupant
44 inch width min. for <2000 yet >50

	NO. OCC.	WIDTH REQUIRED	WIDTH PROVIDED
STAIR 3	130	x .3 = 39 in or 44 in min.	44 in
STAIR 4	62	x .3 = 19 in or 44 in min.	48 in
STAIR 5	122	x .3 = 37 in	48 in
STAIR 6	2	x .3 = 6 in or 36 in min.	42 in

EXIT ACCESS

Common path of egress travel
(IBC 1014.3), (IBC 1028.8)

- For Assembly <30', <75' where occupancy is ≤ 50
- For Business <75', 100' (NFPA 101 12.2.5.1.2 / Table A.7.6)
- For Assembly <20' or <75' where occupancy is ≤ 50
- For Educational <100'
- For Business <100'

Corridor Fire Resistance
(IBC 1018.1)

1 hour

Corridor Width
(IBC 1018.2), (NFPA 101 14.2.3.2)

Not less than 44"
Not less than 36" when less than 50 occupants
Not less than 72" at exit access corridors, or corridors with the capacity of ≥100

Dead-End Corridor
(IEBC 705.6)

Dead-end corridors in occupancy E ≤50'
Dead-end corridors in occupancy A-3 ≤20'
(NFPA 101 14.2.6.3, Table A.7.6)
Travel distance to exit: 200'

SITE ACCESS - Elevator Access
(City of Portland Technical Manual Section 3.4.6)

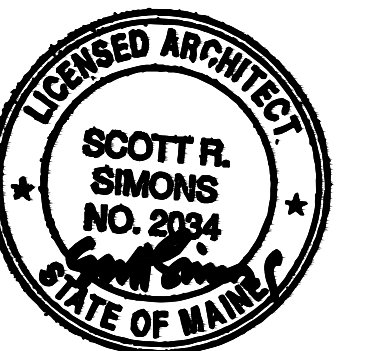
Elevator to accommodate a 80 x 24 inch stretcher

PROJECT NAME:

WAYNFLEET LOWER SCHOOL ADDITION & RENOVATIONS

WAYNFLEET SCHOOL
360 SPRING STREET
PORTLAND, MAINE 04102

SEAL:



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REVISION:

NO.	DATE	DATE
1	17 APRIL 2017	DATE
2	09 MAY 2017	DATE
3		DATE
4		DATE
5		DATE
6		DATE

DATE OF ISSUE: 12 JANUARY 2017

PROJECT NUMBER: 2013-0050

STATUS: 100% CONSTRUCTION DOCUMENTS ISSUED FOR BID

LIFE SAFETY PLAN + CODE SUMMARY

G002R