

### 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 ASHRAE90.1 - (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 Pluming Code State of Maine Subsurface Wastewater Disposal Rules Version dated: Jan 18, 2011 2011 National Electrical Code (NEC)

Fire/ Life Safety

NFPA Life Safety Code as adopted by the State of Maine

Including but not limited to:

2009 NFPA 101: Life Safety Code 2007 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) (NFPA ) Assembly A-3

**AUTOMATIC SUPPRESSION SYSTEM** (NFPA 13)

Automatic sprinkler system provide per NFPA 13 throughout

(IBC Chapter 5, Table 503) (NFPA)

Building Height (To mid-height of the roof) - 2 Stories Total Area 12,580 Perimeter 436'

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

#### Allowable Building Area

	OCCUPANCY (PER IBC CHAPTER 3)	CONSTRUCTION TYPE (PER IBC CHAPTER 6)	ALLOWABLE AREA (IBC TABLE 503 MODIFIED PER IBC 506)	ACTUAL AREA
LOWER FLOOR LEVEL			9,500 TABULAR	10,250 NEW
	A-3	IIB	28,000 ALLOWABLE	
GROUND FLOOR LEVEL			9,500 TABULAR	2,330 NEW
	A-3	IIB	28,000 ALLOWABLE	

#### **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) A-3 + E (None)

TYPES OF CONSTRUCTION (IBC Table 601, Sec 602) (NFPA 220) Type IIB

(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 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)

100 Gross Sqft per Occupant

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

**MEANS OF EGRESS** (IBC Chapter 10)

## **EGRESS WIDTH PER OCCUPANT**

(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) 0.3 Inches per occupant

#### Common path of egress travel

(IBC 1028.8) For Assembly <30' For Business <75' **Corridor Fire Resistance** (IBC 1018.1)

**Corridor Width** (IBC 1018.2)

(IBC 1014.3)

1 hour

Not less then 44"

**Dead-End Corridor** Dead-end corridors in occupancy E ≤50' Dead-end corridors in occupancy A-3 ≤20'

Travel distance to exit: 250'

PLUMBING FIXTURE COUNT (IBC Table 2902.1)

scott simons architects designed for human potential

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E FIRE EXTINGUISHER

OCCUPANT EGRESS LOAD AT DOOR

DOOR OCCUPANT CAPACITY

DIRECTION OF EGRESS

PROJECT NAME:

# WAYNFLETE GYM

NEW CONSTRUCTION

WAYNFLETE SCHOOL 360 SPRING STREET

PORTLAND, MAINE 04102

## NOT FOR CONSTRUCTION

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PLANNING BOARD SUBMISSION

2014-0080

LIFE SAFETY PLAN + **CODE ANALYSIS** 

DATE OF ISSUE:

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