

CHARLES STREET CODE ANALYSIS - LIFE SAFETY

NFPA 101 2003 - CONSTRUCTION: I (332), OCCUPANCY: NEW HEALTHCARE

SECTION	SECTION DESCRIPTION	REQUIREMENT	COMMENTS
6.1.5	CLASSIFICATION OF OCCUPANCY	CHAPTER 18	NEW HEALTHCARE OCCUPANCIES
18.1.1.4	ADDITIONS	CHAPTER 18	NEW HEALTHCARE OCCUPANCIES
18.1.6.4	CONSTRUCTION TYPE LIMITATIONS	I(332)	(SEE FIRE RATINGS TABLE)
18.1.7	OCCUPANT LOAD FOR ALL LEVELS	TABLE 7.3.1.2	6,206 SF SUB-BASEMENT, MECHANICAL SPACE N/A 31,004 SF BASEMENT, STORAGE AND PARKING SPACE N/A 30,002 SF GROUND LEVEL, SPACES TOTALING 460 PEOPLE 31,485 SF SECOND LEVEL, SPACES TOTALING 243 PEOPLE 31,812 SF THIRD LEVEL, SPACES TOTALING 265 PEOPLE 31,485 SF FOURTH LEVEL, SPACES TOTALING 265 PEOPLE 28,826 SF FIFTH LEVEL, 96 PEOPLE + 6 PEOPLE FOR ELEVATOR MACHINE ROOM TOTALING 102 PEOPLE
		TABLE 7.3.3.1 (CAPACITY FACTORS)	LEVEL COMPONENTS, HEALTH CARE, SPRINKLERED (02) STAIRWAYS, HEALTH CARE SPRINKLERED (03)

TRAVEL DISTANCES

TRAVEL FROM LOCATION TO EXIT	ALLOWED MAX.	PROVIDED	COMMENTS
200' BOCA 2007 NFPA	SEE PLANS	SEE PLANS	EXIT ACCESS TRAVEL, TABLE 1006.5 REMOTE POINT TO NEAREST EXIT NFPA 101 18.2.6.2.3 & TABLE A.7.6
1/3 OF THE DIAGONAL DIMENSION NFPA 2003 7.5.1.3.3	SEE PLANS	SEE PLANS	1006.4.1 REMOTENESS - EXITS OR EXIT ACCESS DOORS (FULLY SPRINKLERED)

CHARLES ST. FIRE RATINGS - LIFESAFETY

NFPA 101 2003 - NEW HEALTHCARE, FULLY SPRINKLERED * (I:332)

ITEM DESCRIPTION	FIRE RATING	COMMENTS
EXTERIOR BEARING WALLS	3_HRS.	
INTERIOR BEARING WALLS SUPPORTING MORE THAN ONE FLOOR	3_HRS.	
INTERIOR BEARING WALLS SUPPORTING ONE FLOOR ONLY	2_HRS.	
COLUMNS SUPPORTING MORE THAN ONE FLOOR, COLUMNS, OR BEARING WALLS	3_HRS.	
COLUMNS SUPPORTING ONE FLOOR ONLY	2_HRS.	
BEAMS, GIRDERS, TRUSSES, AND ARCHES SUPPORTING MORE THAN ONE FLOOR	3_HRS.	
BEAMS, GIRDERS, TRUSSES, AND ARCHES SUPPORTING ONE FLOOR ONLY	2_HRS.	
FLOOR CONSTRUCTION	2_HRS.	
ROOF CONSTRUCTION	1-2_HRS.	
EXTERIOR NONBEARING WALLS	0_HRS.	

* INFORMATION TAKEN FROM 1999 NFPA 220 TABLE 3-1
FIRE RATINGS FOR STRUCTURAL ELEMENTS LISTED BELOW ARE PROVIDED AS REQUIRED BY BOCA 1999 FOR CONSTRUCTION TYPE 1B. THESE FIRE RATINGS WILL EQUATE TO A FUTURE IBC CODE CONSTRUCTION TYPE 1A TO ALLOW FOR FUTURE ADDITIONS

CHARLES ST. FIRE RATINGS - BUILDING CODE

BOCA 1999 - TABLE 602 CONSTRUCTION TYPE 1B

ITEM DESCRIPTION	FIRE RATING	COMMENTS
EXTERIOR LOADBEARING WALLS	3_HRS.	
EXTERIOR WALLS NON-LOADBEARING (WITH 0-5' FIRE SEPARATION)	2_HRS.	
(WITH GREATER THAN 5'-10' FIRE SEPARATION)	1_HRS.	
FIRE ENCLOSURE OF EXITS	2_HRS.	
SHAFTS AND ELEVATOR HOISTWAYS	2_HRS.	
OTHER NONBEARING PARTITIONS	0_HRS.	
INTERIOR LOAD BEARING WALLS, PARTITIONS, COLUMNS AND FRAMING SUPPORTING MORE THAN ONE FLOOR	3_HRS.	
SUPPORTING ONE FLOOR OR ROOF ONLY	2_HRS.	
STRUCTURAL MEMBERS SUPPORTING WALL	2_HRS.	
FLOOR CONSTRUCTION INCLUDING BEAMS	2_HRS.	
ROOF CONSTRUCTION INCLUDING BEAMS, FRAMING AND ROOF DECK (15' OR LESS TO LOWEST MEMBER)	1-2_HRS.	ROOF CONSTRUCTION OVER 20' HAS NO RATING REQUIREMENT
(MORE THAN 15' LESS THAN 20')	1_HRS.	

CHARLES ST. CODE ANALYSIS - BUILDING CODE

BOCA 1999 - CONSTRUCTION: TYPE 1B, OCCUPANCY: I-2

SECTION	SECTION DESCRIPTION	REQUIREMENT	COMMENTS
302.1, 308.3	USE GROUP	I-2 INSTITUTIONAL	NEW FREE-STANDING BUILDING
SECTION 603-TABLE 602	CONSTRUCTION CLASSIFICATION	1B	EXISTING RICHARDS BUILDING BELIEVED TO BE 2A CONSTRUCTION WITH 2-HR FLOORS
TABLE 603 REQUIREMENTS	FLOOR ALLOWED - BASE (AREA LIMITATION)	NOT LIMITED	NO ADJUSTMENTS ALLOWED
ACTUAL FLOOR AREAS PROVIDED	NUMBER OF FLOORS	NOT LIMITED	
	CREDS. AREA PER FLOOR	NOT LIMITED	
	SUB-BASEMENT	6,206 SF	
	BASEMENT	31,004 SF	
	GROUND LEVEL	30,002 SF	
	SECOND LEVEL	31,485 SF	
	THIRD LEVEL	31,812 SF	
	FOURTH LEVEL	31,485 SF	
	FIFTH LEVEL	28,826 SF	
	ELEVATOR MACHINE ROOM	1,700 SF	
TABLE 503	HEIGHT LIMITATIONS	NOT LIMITED	
	OCCUPANCY PER FLOOR		
	SUB-BASEMENT	6,206 SF	21 PEOPLE
	BASEMENT	31,004 SF	118 PEOPLE
	GROUND LEVEL	30,002 SF	101 PEOPLE
	SECOND LEVEL	31,485 SF	243 PEOPLE
	THIRD LEVEL	31,812 SF	265 PEOPLE
	FOURTH LEVEL	31,485 SF	265 PEOPLE
	FIFTH LEVEL	28,826 SF	96 + 6(700 SF EL. MACH. RM.) = 102 PEOPLE
TABLE 1008.1.2	NUMBER OF EXITS REQUIRED		
	SUB-BASEMENT	2 REQ. - 2 PROVIDED	
	BASEMENT	2 REQ. - 2 PROVIDED	
	GROUND LEVEL	3 REQ. - 3 PROVIDED	
	SECOND LEVEL	2 REQ. - 2 PROVIDED	
	THIRD LEVEL	2 REQ. - 2 PROVIDED	
	FOURTH LEVEL	2 REQ. - 2 PROVIDED	
	FIFTH LEVEL	2 REQ. - 2 PROVIDED	
TABLE 1017.2	ELEVATOR MACHINE ROOM	1 REQ. - 1 PROVIDED	

General Notes:

LIFE SAFETY LEGEND

- RATED PARTITIONS ARE INDICATED AS FOLLOWS:
 - 1HR FIRE RATED PARTITION
 - 2HR FIRE RATED PARTITION
 - NON-RATED SMOKE RESISTANT PARTITION
 - 1HR SMOKE BARRIER
 - 2HR RATED FIRE AND SMOKE BARRIER
 - PATH OF EXIT TRAVEL
 - INDICATES EXIT LOCATION
 - SUITE (UNRATED)
 - CONNECTOR PROJECT SCOPE
 - EXISTING EGRESS STAR
 - POINT OF EGRESS ACCESS
 - PORTABLE FIRE EXTINGUISHER
 - EXIT SIGN
 - HOSE STATION

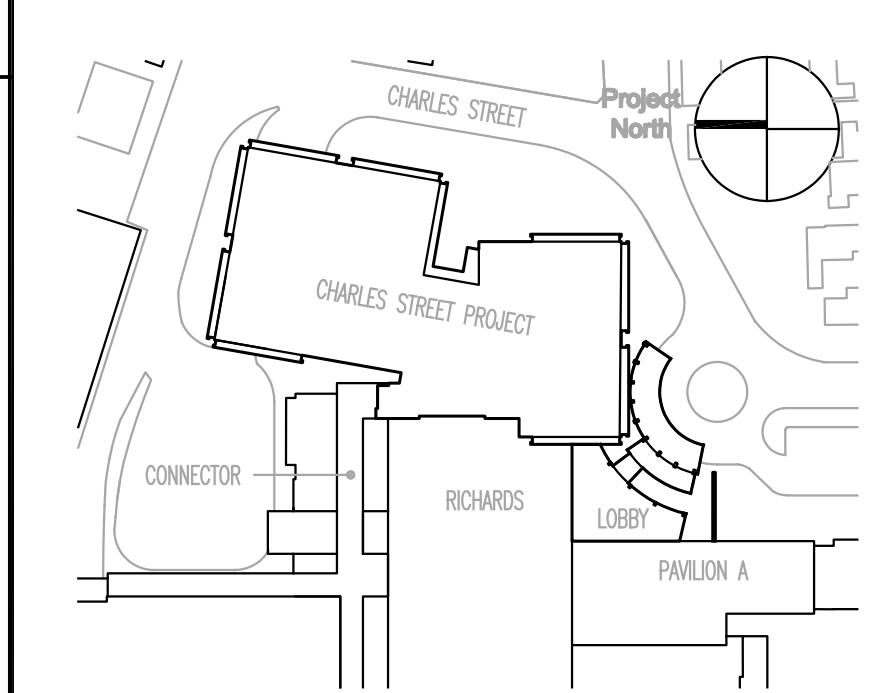
MARK ISSUE DATE DESCRIPTION

FOR PERMIT ONLY

NOT FOR CONSTRUCTION

PERMIT 09/24/04 PERMIT SET - NOT FOR CONSTRUCTION

Issue Log



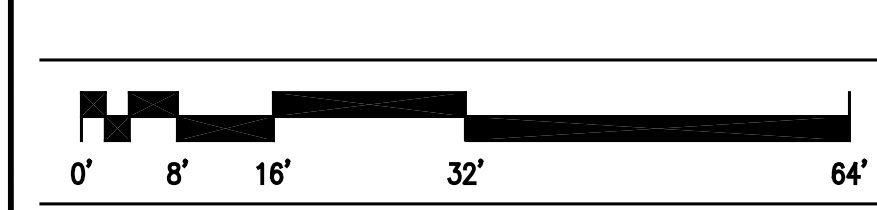
Key Plan

TRO
ARCHITECTURE
PLANNING
ENGINEERING
INTERIOR DESIGN

The Ritchie Organization
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Maine Medical Center
Charles Street Project
Portland, Maine MMC Project No. 21841

Drawing Title
**FIFTH FLOOR (PENTHOUSE)
LIFE SAFETY PLAN**



Commission No.	4673	Date Issued	
Scale	1/16" = 1'-0"	Sheet Number	
Drawn By	BJS	Approved By	SB
File Name	lspg-11_46730105	Copyright	© 2004 The Ritchie Organization

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