

**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 (1,461 PEOPLE TOTAL 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, 36,002 SF GROUND LEVEL, SPACES TOTALING 460 PEOPLE, 31,495 SF SECOND LEVEL, SPACES TOTALING 234 PEOPLE, 31,812 SF THIRD LEVEL, SPACES TOTALING 265 PEOPLE, 31,485 SF FOURTH LEVEL, SPACES TOTALING 263 PEOPLE, 28,806 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	ALLOWED MAX.	PROVIDED	COMMENTS
TO EXIT	200' BOCA 200' NFPA	SEE PLANS	EXIT ACCESS TRAVEL, TABLE 1006.5 REMOTE POINT TO NEAREST EXIT NFPA 101, 18.2.6.2.3 & TABLE A.7.6
TO EXIT	1/3 OF THE DIAGONAL DIMENSION NFPA 2003 7.5.1.3.3	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**

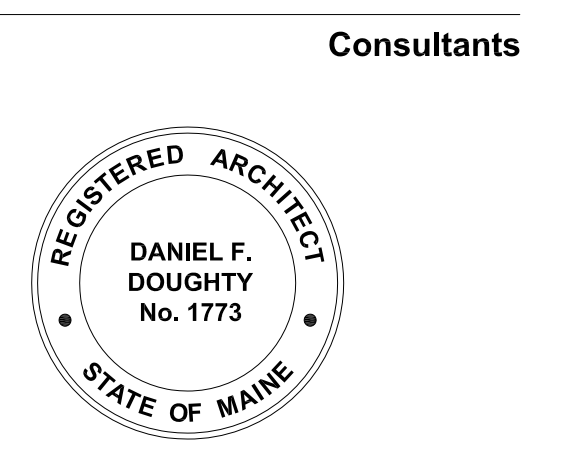
BOCA 1999 - CONSTRUCTION: TYPE 1B, OCCUPANCY: I-2

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 503 REQUIREMENTS	FLOOR ALLOWED - BASE (AREA LIMITATION)	NOT LIMITED	NO ADJUSTMENTS ALLOWED
ACTUAL FLOOR AREAS PROVIDED	NUMBER OF FLOORS	NOT LIMITED	
	GROSS AREA PER FLOOR	NOT LIMITED	
	SUB-BASEMENT	6,941 SF	
	BASEMENT	31,004 SF	
	GROUND LEVEL	32,979 SF	
	SECOND LEVEL	32,768 SF	
	THIRD LEVEL	33,008 SF	
	FOURTH LEVEL	30,328 SF	
	FIFTH LEVEL	30,041 SF	
TABLE 503 HEIGHT LIMITATIONS	OCCUPANCY PER FLOOR	NOT LIMITED	
	SUB-BASEMENT	6,941 SF	21 PEOPLE
	BASEMENT	25,861 SF	116 PEOPLE
	GROUND LEVEL	27,979 SF	151 PEOPLE
	SECOND LEVEL	32,768 SF	234 PEOPLE
	THIRD LEVEL	33,008 SF	265 PEOPLE
	FOURTH LEVEL	30,328 SF	263 PEOPLE
	FIFTH LEVEL	30,041 SF	96 + (61,700 SF. EL. MACH. RM.) = 102 PEOPLE
TABLE 1010.2	NUMBER OF EXITS REQUIRED	2 REQ. - 2 PROVIDED	
	SUB-BASEMENT	2 REQ. - 2 PROVIDED	
	BASEMENT	2 REQ. - 2 PROVIDED	
	GROUND LEVEL	3 REQ. - 5 PROVIDED	
	SECOND LEVEL	2 REQ. - 2 PROVIDED	
	THIRD LEVEL	2 REQ. - 3 PROVIDED	
	FOURTH LEVEL	2 REQ. - 2 PROVIDED	
	FIFTH LEVEL	2 REQ. - 2 PROVIDED	
TABLE 1017.2			



MAX. OVERALL DIAGONAL  
 165'-6"  
 MINIMUM REMOTENESS REQ.  
 55'-2" (1/3 D)  
 PROVIDED  
 64'-5"

MAX. OVERALL DIAGONAL  
 195'-2"  
 MINIMUM REMOTENESS REQ.  
 65' (1/3 D)  
 PROVIDED  
 86'-11"



**Pediatric Short Stay Unit**

Campus  
 Bramhall  
 Building  
 East Tower  
 Floor  
 Ground

**Revisions**

No	Revision	Date

Issue FOR PERMIT  
 Date 11 JUNE 2013  
 Project #  
 Drawn By DM  
 Checked By DFD  
 Title

**EXISTING LIFE SAFETY PLAN**