

BUILDING EVALUATION SUMMARY (Table 3410.7)

Existing occupancy	Year building was constructed	Number of stories	Height in feet
Proposed occupancy	Area per floor	Corridor wall rating	Required door closers: Yes <input type="checkbox"/> No <input type="checkbox"/>
Completely suppressed:	Yes <input type="checkbox"/> No <input type="checkbox"/>	Fire resistance rating of vertical opening enclosures	Compartmentation: Yes <input type="checkbox"/> No <input type="checkbox"/>
Percentage of frontage	%	Automatic fire detection:	Yes <input type="checkbox"/> No <input type="checkbox"/>
Fire alarm system:	Yes <input type="checkbox"/> No <input type="checkbox"/>	Fire alarm system:	Yes <input type="checkbox"/> No <input type="checkbox"/>
Smoke control:	Yes <input type="checkbox"/> No <input type="checkbox"/>	Smoke control:	Yes <input type="checkbox"/> No <input type="checkbox"/>
Adequate exit routes:	Yes <input type="checkbox"/> No <input type="checkbox"/>	Dead ends:	Yes <input type="checkbox"/> No <input type="checkbox"/>
Maximum exit access travel distance	Yes <input type="checkbox"/> No <input type="checkbox"/>	Elevator controls:	Yes <input type="checkbox"/> No <input type="checkbox"/>
Means of egress emergency lighting:	Yes <input type="checkbox"/> No <input type="checkbox"/>	Mixed occupancies:	Yes <input type="checkbox"/> No <input type="checkbox"/>
Safety parameters	Fire safety (FS)	Means of egress (ME)	General safety (GS)

3410.6.1 Building height	3410.6.2 Building area	3410.6.3 Compartmentation	3410.6.4 Tenant and dwelling unit separations	3410.6.5 Corridor walls	3410.6.6 Vertical openings	3410.6.7 HVAC systems	3410.6.8 Automatic fire detection	3410.6.9 Fire alarm system	3410.6.10 Smoke control	3410.6.11 Means of egress	3410.12 Dead ends	3410.13 Max. exit access travel distance	3410.6.14 Elevator control	3410.6.15 Means of egress emergency lighting	3410.6.16 Mixed occupancies	3410.6.17 Automatic sprinklers	3410.6.18 Incidental use area protection	Building score — total value	
****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****

BUILDING SAFETY EVALUATION SCORE (Table 3410.9)

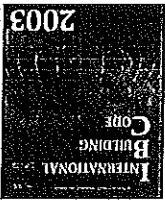
Formula	Table 3410.7	Table 3410.8	Score	Pass	Fall
FS-MFS ≥ 0	(FS)	(MFS)	=		
ME-MME ≥ 0	(ME)	(MME)	=		
GS-MGS ≥ 0	(GS)	(MGS)	=		

FS = Fire Safety  
 ME = Means of Egress  
 GS = General Safety  
 MFS = Mandatory Fire Safety  
 MME = Mandatory Means of Egress  
 MGS = Mandatory General Safety

APPENDICES A - J

Appendices adopted (101.2.1) Compliance verified

2003 INTERNATIONAL BUILDING CODE



PLAN REVIEW RECORD

Plan Review # 09-0976  
 Date: 10/23/09  
 Valuation: 1,621,740  
 Fee: 16,315.00

JURISDICTION:

Per Hand ME

BUILDING LOCATION:

21 Auburn St.  
 (City, County, Township, etc.)

BUILDING DESCRIPTION:

M/S Typ 2B  
 CVS Pharmacy

REVIEWED BY:

Francine Bourke

CORRECTION LIST

No.	DESCRIPTION	Code Section
1	Geotechnical Report	
2	Att read devices min. tread proj. 5" (4.7/8") A-1.2.1	100%/10
	Note = Design spec for structural loads can be found on plans S1.1, S1.2, S2.1 Some info missing - Application page missing - No seismic	
3	Piling - referenced in statement S.I. Div. 2 <sup>work</sup> #3 Deep Foundations	
4	Structural Steel SF Divs <sup>1</sup> Fabrication ? NH Brode sec. referenced	

SCANNED



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NOTES: N.R. — Not required  
N.A. — Not applicable

**ADMINISTRATION (Chapter 1)**

Complete construction documents (106.1, 106.2)  
Signed/sealed construction documents (106.1, State laws vary)

**BUILDING PLANNING (Chapters 3, 4, 5, 6)**

**OCCUPANCY CLASSIFICATION (302.0-312.0)**

Single Occupancy (302.1) M/S  
Mixed Occupancy (302.3) \_\_\_\_\_  
Incidental use areas (302.1.1) \_\_\_\_\_  
Accessory use areas (302.2) \_\_\_\_\_

**GENERAL BUILDING LIMITATIONS (Chapters 5 & 6)**

Apply Case 1 to determine the allowable height and area and permitted types of construction for a building containing a single occupancy or nonseparated mixed occupancies. Apply Case 2 to determine the allowable height and area and permitted types of construction for a building containing separated mixed occupancies.

**AREA MODIFICATIONS TO TABLE 503**

Frontage (506.2)	North	East	South	West
	61'	35'	153'	172'
Total	421 ft. Perimeter (P) 384 ft.			
Width of open space (W) =	25'			
% Frontage increase (If) =	62.5%			
$l = 100 \left[ \frac{F}{P} - 0.25 \right] \left[ \frac{P}{W} \right]$ (506.2)				

% of Allowable tabular area,  $A_t$  (Table 503) 100%  
% Increase for frontage,  $l_i$  (506.2) +150%  
% Increase for automatic sprinklers,  $l_s$  (506.3) +200%  
Total percentage factor = 350%  
Conversion factor  $350/100 = 3.50$   
Total percentage factor + 100%

**CASE 1 — SINGLE OCCUPANCY OR NONSEPARATED USES (302.3.1)**

Using Table 503, identify the allowable height and area of the single occupancy or the most restrictive of the nonseparated mixed occupancies. Construction types that provide an allowable tabular area equal to or greater than the adjusted building area and allowable heights (as modified by Section 504) equal to or greater than the actual building height are permitted.

**CHECK ALLOWABLE AREA (506.4)**

Allowable area per floor ( $A_a$ )  $350 \times 12,500 = 4,375,000$  ft<sup>2</sup>  
conversion factor  $12,468 \times 1.2 = 14,961.6$  ft<sup>2</sup>  
Total floor area (all stories)  $14,961.6 \times 5 = 74,808$  ft<sup>2</sup>  
Allowable floor area (all stories)  $4,375,000$  ft<sup>2</sup>

Allowable area per floor ( $A_a$ )  $43,250$  ft<sup>2</sup>  
number of stories (maximum 3)  $1$   
Compliance verified (Single Occ. or Nonsep.) ✓

**DETERMINE CONSTRUCTION TYPE**

Actual building area 12,468 ft<sup>2</sup>  
Adjusted building area 12,468 ft<sup>2</sup>  
Actual building height 32.5" feet  
Actual building height 1 stories  
Permitted types of construction M/C  
Allowable building height 75' feet  
Allowable building height 5 stories

Type of construction assumed 2B  
for review (602.1.1)

**INTERIOR ENVIRONMENT (Chapter 12)**

Ventilation openings (1203) ✓  
Temperature control (1204) ✓  
Lighting (1205) ✓  
Yards or courts (1206) \_\_\_\_\_  
Sound transmission (1207) \_\_\_\_\_  
Interior space dimensions (1208) \_\_\_\_\_  
Access to unoccupied spaces (1209) \_\_\_\_\_  
Surrounding materials (1210, 2509) \_\_\_\_\_

**BUILDING ENVELOPE (Chapters 13\*, 14, 15)**

\*See Energy Conservation Code Plan Review Record

**EXTERIOR WALLS (Chapter 14)**

Performance requirements (1403) ✓  
Exterior wall coverings/MCM's (1405, 1407) \_\_\_\_\_  
Materials (1404) \_\_\_\_\_  
Combustible material restrictions (1406) \_\_\_\_\_

**ROOF ASSEMBLIES AND ROOFTOP STRUCTURES (Chapter 15)**

Weather protection (1503) ✓  
Flashing (1503.2, 1507.2.9, 1507.3.9, 1507.5.6, 1507.7.6, 1507.8.7, 1507.9.8) ✓  
Performance requirements (1504) ✓  
Fire classification (1505) \_\_\_\_\_  
Reroofing (1510) \_\_\_\_\_  
Materials (1506) \_\_\_\_\_  
Roof coverings (1507) \_\_\_\_\_  
Roof insulation (1508) \_\_\_\_\_  
Rooftop structures (1509) \_\_\_\_\_

**STRUCTURAL SYSTEMS (Chapters 16, 17, 18)**

**STRUCTURAL DESIGN (Chapter 16)**

STRUCTURAL DESIGN CALCULATIONS  
Submitted for all structural members (106.1, 106.1.1)  
DESIGN LOADS ON CONSTRUCTION DOCUMENTS (1603)  
Uniformly distributed floor live loads (1603.1.1, 1607)  
Loads Shown  
Slab - 1st 100 psf  
Reball 100 psf  
Light storage 125 psf  
conc. 1000 lb  
MEZZ - Dead 50 psf  
Live 125 psf  
LIVE  
LIVE load reduction (1603.1.1, 1607.9, 1607.10)  
Roof live loads (1603.1.2, 1607.11)  
Roof snow loads (1603.1.3, 1608)  
Ground snow load,  $P_g$  (1608.2) 30 psf  
If  $P_g > 10$  psf, flat-roof snow load,  $P_f$  (1608.3)  
If  $P_g > 10$  psf, snow exposure factor,  $C_e$  (Table 1608.3.1)  
If  $P_g > 10$  psf, snow load importance factor,  $I_s$  (Table 1604.5)  
Roof thermal factor,  $C_t$  (Table 1608.3.2) 35 psf  
Sloped roof snowload,  $P_s$  (1608.4) 35 psf



**OCCUPANT NEEDS (Chapters 10, 11, 12)**

Location	Floor Sq.ft./	Area + person = load	Occup. load	Other occ. loads	Total
Retail	9627 ÷ 30				321
Pharmacy	1054 ÷ 100				11
Receiving	1,191 ÷ 300				4
Warehouse	84 ÷ 100				1
Restroom/EMP	348 ÷ 30				12
Mezz-Storage	1,952 ÷ 300				7
<b>356 DL</b>					
<p><b>CAPACITY OF EGRESS COMPONENTS (1005.1 and Table 1005.1)</b></p> <p>Other egress components _____</p> <p>Stairways _____</p> <p>Egress width (inch/occupant) _____</p> <p>Stairways _____</p> <p>Other egress components _____</p>					
<p><b>MEANS OF EGRESS (Chapter 10)</b></p>					

Location	Required	Shown
<p><b>NUMBER OF EXITS (1018.1, 1018.2)</b></p>		

**HIGH-RISE BUILDINGS (403)**

Automatic sprinkler system (403.2)	/
Fire-resistance rating reduction (403.3)	/
Automatic fire detection (403.5)	/
Emergency voice/alarm systems (403.6)	/
Fire department communication (403.7)	/
Fire command center (403.8)	/
Elevators (403.9)	/
Standby power (403.10)	/
Emergency power (403.11)	/
Stairway doors (403.12)	/
Smokeproof exit (403.13)	/
ATRIUMS (404)	/
Atrium use (404.2)	/
Automatic sprinkler system (404.3)	/
Smoke control (404.4)	/
Enclosure (404.5)	/
Standby power (404.6)	/
Interior finish (404.7)	/
Travel distance (404.8)	/

**COMBUSTIBILITY (602.2, 602.3, 602.4, 602.5, 603)**

Structural frame (714)	2h(m)
Interior bearing walls	2h(m)
Interior nonbearing walls	2h(m)
Floor construction (711)	2h(m)
Roof construction (711)	2h(m)

**FIRE-RESISTANCE RATINGS AND FIRE TESTS (703)**

Fire separation distance: North, East, South, West

Alternative methods (703.3, 718, 720, 721)

**FIRE PROTECTION (Chapters 6, 7, 8, 9)**

Structural frame (714)	☑
Interior bearing walls	☑
Interior nonbearing walls	☑
Floor construction (711)	☑
Roof construction (711)	☑

**BUILDING ELEMENTS (Table 601)**

Fire separation distance: North, East, South, West

**OTHER SPECIAL USE AND OCCUPANCY**

Underground structures (405)	/
Motor vehicle related occupancies (406, 508)	/
Group I-2 (407)	/
Group I-3 (408)	/
Motion picture projection rooms (409)	/
Stages and platforms (410)	/
Special amusement buildings (411)	/
Aircraft-related occupancies (412)	/
Combustible storage (413)	/
Hazardous materials (307.9, 414)	/
Groups H-1, H-2, H-3, H-4, and H-5 (415)	/
Application of flammable finishes (416)	/
Drying rooms (417)	/
Organic coatings manufacturing (418)	/

<input checked="" type="checkbox"/>	Opening protection (704.8, 704.12, 704.14)	<input checked="" type="checkbox"/>	351
<input type="checkbox"/>	Vertical fire spread protection (704.9, 704.10)	<input type="checkbox"/>	N/A
<input type="checkbox"/>	Parapets (704.11)	<input type="checkbox"/>	N/A
<input type="checkbox"/>	Shaft enclosures (706.3.1)	<input type="checkbox"/>	
<input type="checkbox"/>	Exit enclosures (706.3.2, 706.3.3)	<input type="checkbox"/>	
<input type="checkbox"/>	Horizontal exits (706.3.4)	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	Incidental use areas (706.3.5)	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	Mixed occupancy and fire area separations (706.3.6, 706.3.7)	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	SHAFTS (707)	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	Exceptions (707.2)	<input type="checkbox"/>	
<input type="checkbox"/>	Construction (707.3 - 707.14)	<input type="checkbox"/>	

EXTERIOR WALLS (continued)

OTHER FIRE RESISTANT CONSTRUCTION

<input type="checkbox"/>	Fire walls (705)
<input type="checkbox"/>	Fire partitions (708)
<input type="checkbox"/>	Smoke barriers (709)
<input type="checkbox"/>	Smoke partitions (710)
<input type="checkbox"/>	Penetrations (712)
<input type="checkbox"/>	Fire resistant joint systems (713)
<input type="checkbox"/>	Opening protectives (715)
<input type="checkbox"/>	Dampers (716)
<input type="checkbox"/>	Concealed spaces (717)
<input type="checkbox"/>	Thermal and sound-insulating materials (719)

INTERIOR FINISHES (Chapter 8)

<input type="checkbox"/>	Smoke development (803.1)
<input type="checkbox"/>	Flame spread (803.1)
<input type="checkbox"/>	Non-textile finish (803.2)

FIRE PROTECTION (Chapter 9)

<input type="checkbox"/>	Additional required systems (Table 903.2.13)
<input type="checkbox"/>	International Fire Code (IFC 903.2.13)
<input type="checkbox"/>	AUTOMATIC SPRINKLER SYSTEMS* (903)
<input type="checkbox"/>	Shop drawings (106.1.1.1)
<input type="checkbox"/>	NFPA 13 system (903.3.1.1)
<input type="checkbox"/>	NFPA 13R system (903.3.1.2)
<input type="checkbox"/>	NFPA 13D system (903.3.1.3)
<input type="checkbox"/>	Quick-response and residential heads (903.3.2)
<input type="checkbox"/>	Actuation (903.3.4)
<input type="checkbox"/>	Water supply (903.3.5)
<input type="checkbox"/>	Hose connections (903.3.6, 903.3.7)
<input type="checkbox"/>	Sprinkler monitoring and alarms (903.4, 907.13)

*Sprinkler permit*

\* Also see Fire Code Sprinkler Plan Review Record

ALTERNATIVE AUTOMATIC FIRE-EXTINGUISHING SYSTEMS (904)

<input type="checkbox"/>	Installation (904.3)
<input type="checkbox"/>	Wet-chemical systems (904.5)
<input type="checkbox"/>	Dry-chemical systems (904.6)
<input type="checkbox"/>	Foam systems (904.7)
<input type="checkbox"/>	Carbon dioxide systems (904.8)
<input type="checkbox"/>	Halon systems (904.9)
<input type="checkbox"/>	Clean-agent systems (904.10)
<input type="checkbox"/>	Commercial cooking systems (904.2.1, 904.11)

STANDPIPE SYSTEMS (905)

<input type="checkbox"/>	Installation standards (905.2)
<input type="checkbox"/>	Building height (905.3.1)
<input type="checkbox"/>	Group A (905.3.2)
<input type="checkbox"/>	Covered malls (905.3.3)
<input type="checkbox"/>	Stages (905.3.4)
<input type="checkbox"/>	Underground buildings (905.3.5)
<input type="checkbox"/>	Heliports/heliports (905.3.6)
<input type="checkbox"/>	Hose connections and locations (905.1, 905.4, 905.5, 905.6)
<input type="checkbox"/>	Cabinets (905.7)
<input type="checkbox"/>	Dry standpipes (905.8)
<input type="checkbox"/>	Valve supervision (905.9)

PORTABLE FIRE EXTINGUISHERS (906)

<input type="checkbox"/>	Required locations - IFC (906.1)
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FIRE ALARM AND DETECTION SYSTEMS (907)

<input type="checkbox"/>	Construction documents (907.1.1)
<input type="checkbox"/>	Assembly (A-1, A-2, A-3, A-4, A-5) (907.2.1)
<input type="checkbox"/>	Business (B) (907.2.2)
<input type="checkbox"/>	Educational (E) (907.2.3)
<input type="checkbox"/>	Factory (F-1, F-2) (907.2.4)
<input type="checkbox"/>	High-hazard (H-1, H-2, H-3, H-4, H-5) (907.2.5)
<input type="checkbox"/>	Institutional (I-1, I-2, I-3, I-4) (907.2.6)
<input type="checkbox"/>	Mercantile (M) (907.2.7)
<input type="checkbox"/>	Residential (R-1, R-2) (907.2.8, 907.2.9)

*Local ordinance PD*

*NO 4560*

(Where required)

<input type="checkbox"/>	Single/multiple station smoke alarms (907.2.10)
<input type="checkbox"/>	High rise buildings (907.2.12)
<input type="checkbox"/>	Atriums (907.2.13)
<input type="checkbox"/>	Other buildings/areas (907.2.11, 907.2.14 - 907.2.23)
<input type="checkbox"/>	FIRE ALARM AND DETECTION SYSTEMS (907)
<input type="checkbox"/>	Residential smoke alarm power source (907.2.10.2)
<input type="checkbox"/>	Residential smoke alarm interconnection (907.2.10.3)
<input type="checkbox"/>	Location/Power supply/Wiring (907.3 - 907.5)
<input type="checkbox"/>	Activation/Resignal/Zones (907.6 - 907.8)
<input type="checkbox"/>	Alarm notification appliances (907.9)
<input type="checkbox"/>	Detectors (907.10 - 907.12)
<input type="checkbox"/>	Monitoring (907.14)
<input type="checkbox"/>	EMERGENCY ALARM SYSTEMS (908)
<input type="checkbox"/>	Detection system applicable (908.1 - 908.6)
<input type="checkbox"/>	SMOKE CONTROL SYSTEMS (909)
<input type="checkbox"/>	Where required (402.9, 404.4, 405.5, 408.8, 410.3, 7.2, 1019.1.8, 1024.6.2.1)
<input type="checkbox"/>	Design requirements (909.1 - 909.4)
<input type="checkbox"/>	Smoke barriers (909.5)
<input type="checkbox"/>	Pressurization method (909.6)
<input type="checkbox"/>	Airflow method (909.7)
<input type="checkbox"/>	Exhaust method (909.8)
<input type="checkbox"/>	Equipment/Power (909.10, 909.11)
<input type="checkbox"/>	Detection and control (909.12 - 909.18)
<input type="checkbox"/>	Smokeproof enclosures (909.20)
<input type="checkbox"/>	Underground buildings (909.21)
<input type="checkbox"/>	SMOKE AND HEAT VENTS (910)
<input type="checkbox"/>	Requirements (910.1 - 910.3)
<input type="checkbox"/>	Mechanical alternative (910.4)
<input type="checkbox"/>	FIRE COMMAND CENTER (911)
<input type="checkbox"/>	Features (911.1)