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Architectural Design Summary

Project o	description a	and address:	
,			

General information:

- 1. This document **must** be completed and attached to the application submission. When necessary, additional analyses shall be provided and included with the submission.
- 2. All references refer to the Manitoba Building Code (MBC).
- 3. Indicate all items that are not applicable.

Fire Protection, Occupant Safety and Accessibility (MBC Part 3 – Division B)

M	MBC Section 3.1 – General				
a.	Major occupancy classification (3.1.2):				
b.	Other intended occupancy group(s):				
C.	Building area(s) (square metres). For additions, both new and existing areas must be included.				
d.	Building height: (number of storeys) Facing number of streets:				
e.	Building is sprinklered: ☐ Yes ☐ No				
f.	Firewall(s): hr fire separation Location (grid line):				
g.	High building (3.2.6): \square Yes \square No \square If yes, additional analysis included (check): \square				
h.	Alternative solution(s): \square Yes \square No If yes, see attachment: \square				
i.	Design occupant load(s) (3.1.17) - specify occupant loads for various spaces, when applicable.				
	MBC Section 3.2 – Building fire safety 3.2.2 – Building size and construction relative to occupancy				
a.	Construction article(s) – select from articles 3.2.2.20 to 3.2.2.92				
b.	Construction: ☐ Non-combustible ☐ Combustible or non-combustible, used singly or in combination ☐ Encapsulated mass timber (EMTC) or non-combustible, used singly or in combination				
C.	Floor assembly above basement (see 3.2.1.4. & (hr) fire separation (FS)				
d.	Crawl space (see 3.2.2.9)				
e.	Other floor assemblies (hr) fire separation (FS)				
f.	Mezzanine assemblies (hr) fire resistance rating (FRR)				





g.	Roof assembly			(hr) FF	R
h.	n. Roof assembly (see 3.1.14.2)				
i.	Load bearing beams and columns		(hr) FRR		
j.	Fire blocks (attic - 3.1.11.5)				
k.	Fire blocks (crawl space - 3.1.11.6)				
l.	Encapsulated mass timber construc	etion (3.1.6)		□ Yes	
m.	. Combination smoke/fire dampers re	equired (3.1.8.7)		□ Yes	□ N/A
	2.3 – Spatial separation ee Tables 3.2.3.1. A to E; Sentences	3.2.3.7.(1) & (2);	3.2.3.7.(3) and (4); ar	nd Article 3.2.3.8. (Ca	AN/ULC-S134)
No	orth Wall				
a.	Limiting distance (LD) =	metres; Expo	osing building face (El	BF) =	₋ m² (area)
b.	Unprotected openings (allowable) _	% (spec	ify) > unprotected o	ppenings (actual)	% (specify)
_	EDD (br)	Construction:	□ non-combustible	□ combustible	□ EMTC
C.	FRR = (hr)	Cladding:	□ non-combustible	□ combustible	
Sc	outh Wall				
a.	Limiting distance (LD) =	metres; Exp	osing building face (E	BF) =	_ m² (area)
b.	Unprotected openings (allowable) _	% (spec	ify) > unprotected of	openings (actual)	% (specify)
C	FRR = (hr)	Construction:	□ non-combustible	□ combustible	□ EMTC
٥.	(111)	Cladding:	□ non-combustible	□ combustible	
Ea	ast Wall				
a.	Limiting distance (LD) =	metres; Exp	osing building face (E	BF) =	_ m² (area)
b.	Unprotected openings (allowable) _	% (spec	cify) > unprotected of	openings (actual)	% (specify)
C	FRR = (hr)	Construction:	□ non-combustible	□ combustible	□ EMTC
0.	(11)	Cladding:	□ non-combustible	□ combustible	
W	est Wall				
a.	Limiting distance (LD) =	metres; Exp	osing building face (E	BF) =	_ m² (area)
b.	Unprotected openings (allowable) _	% (spec	cify) > unprotected o	ppenings (actual)	% (specify)
C.	FRR = (hr)	Construction:	□ non-combustible	□ combustible	□ EMTC
•		Cladding:	□ non-combustible	□ combustible	
Supplementary calculations attached: ☐ Yes					
Where unprotected openings are >10% but \leq 50%, combustible cladding complies with Articles 3.1.5.5. and 3.1.5.6. [Sentences 3.2.3.7.(3) and (4)]					

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	here unprotected openings are >10% in buildings not more than 3-storeys in building ght, foamed plastic insulation used in exterior wall complies with Article 3.2.3.8.	□ Yes	□ N/A
	2.8 – Mezzanines and openings through floor assemblies e MBC Section 3.2.8		
a.	Open mezzanine (maximum 40%) [Article 3.2.1.1.(3)]	□ Yes	□ N/A
b.	Enclosed mezzanine (maximum 10%) [Article 3.2.1.1.(4)]	□ Yes	□ N/A
c.	Interconnected floor space [Sentence 3.2.8.2.(6)]	□ Yes	□ N/A
d.	Interconnected floor space (Articles 3.2.8.3 to 3.2.8.9)	□ Yes	□ N/A
ME	3C Section 3.3 – Safety within floor areas		
a.	Suite separation (Article 3.3.1.1)		(hr) FS
b.	Major occupancy separation (Table 3.1.3.1)		(hr) FS
c.	Public corridor separations (Article 3.3.1.4)		(hr) FS
d.	Dead-end corridor [Article 3.3.1.9.(5)] – maximum 6 m		(m)
e.	Janitor's room (3.3.1.22)		(hr) FS
f.	Common laundry rooms (3.3.1.23)		(hr) FS
g.	Welding and cutting rooms (3.3.1.26)		(hr) FS
h.	Repair garage (3.3.5.5) 2 hr FS	□ Yes	□ N/A
i.	Storage garage (3.3.5.6) 1.5 hr FS	□ Yes	□ N/A
j.	Storage of dangerous goods (3.3.6)	□ Yes	□ N/A
ME	3C Section 3.4 – Exits		
a.	Number of exits provided [3.4.2.1.(1)]:		
b.	Distance between exits (3.4.2.3) = m > 1/2 Diagonal m		
c.	Travel distance (3.4.2.5) = m		
d.	Exit (3.4.4.1) (hr) FS		
e.	Exit lobby (3.4.4.2) (hr) FS		
f.	Exit capacity Stair # (3.4.3.2): (width)mm capacity:mm	m/person	
	Number of persons/exit:		
g.	Exit capacity Stair # (3.4.3.2): (width)mm capacity:mi	m/person	
	Number of persons/exit:		
h.	Horizontal exit (3.4.1.6 and 3.4.6.10): \square Yes \square No		
i.	Exit schematic provided (optional): \square Yes \square No		



j.	Additional information:			
ME	BC Section 3.5 – Vertical transportation			
a.	Elevator shaft (3.5.3.1)		(hr) FS
b.	Elevator machine room (3.5.3.3)		(hr) FS
c.	Elevator size (3.5.4.1) - see appendix A		mm x	mm
ME	3C Section 3.6 – Vertical service spaces			
a.	Service (furnace) room (3.6.2.1)		(hr) FS
b.	Service (other) room(s) (3.6.2.1)		(hr) FS
c.	Incinerator room(s) (3.6.2.4)		(hr) FS
d.	Refuse (garbage) and recycling storage room(s) (3.6.2.5)		(hr) FS
	BC Section 3.7 – Washroom fixtures e Subsection 3.7.2 and Tables 3.7.2.2 A to C			
a.	Occupant load/sex =/2 =/sex			
b.	Female Water Closet: Number required =	Number Pro	ovided =	
	Lavatory: Number required =	Number Pro	ovided =	
c.	Male Water Closet: Number required =	Number Pro	ovided =	
	Lavatory: Number required =	Number Pro	ovided =	
	te: Unisex washroom fixture counts shall be based on Section 3.7 tables be ander	pased on tot	al numbers red	quired per
ME	3C Section 3.8 – Barrier-free design			
a.	Barrier-free protection (3.3.1.7)	(sp	ecify type) or	□ N/A
b.	Barrier-free path of travel provided throughout the building (3.8.2.3)		☐ Yes	
C.	Barrier-free access to upper floor(s) by elevator – required for buildings > in building height (3.8.2.3)	2-storeys	□ Yes	□ N/A
d.	Barrier-free washrooms are provided (3.8.2.8)		☐ Yes	
e.	Public entrance doors equipped with power door operators (3.8.2.7)		☐ Yes	□ N/A
f.	Universal washroom provided (3.8.2.8 and 3.8.3.13)		☐ Yes	□ N/A
g.	Min. 850mm clear width for doors in a barrier-free path of travel (3.8.3.6)		☐ Yes	□ N/A
h.	Tactile information signs – including exit signs (3.8.3.9)		□ Yes	□ N/A
Bu	ilding code electrical life safety systems			
a.	3.2.4 – Fire alarm and detection systems: fire alarm is required		☐ Yes	□ No
b.	3.2.7 – Emergency lighting: emergency lighting is required		□ Yes	□ No

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c.	3.4.5 – Exit signs: exit signage is required	☐ Yes	□ No
	re Paramedic Service – Fire Prevention Branch – MBC/MFC 1.5 – Provisions for Fire Fighting		
a.	Access for fire fighting provided to basement, above grade storeys, and roof (3.2.5.1, 3.2.5.2, and 3.2.5.3)	□ Yes	□ No
b.	Access routes for firefighter's vehicles, including turnaround (3.2.5.4, 3.2.5.5, and 3.2.5.6)	□ Yes	□ No
C.	Location of hydrants indicated [3.2.5.5.(2)]	□ Yes	□ No
d.	Standpipe system is required (see Article 3.2.5.8 and Table 3.2.5.8.)	□ Yes	□ No
e.	Standpipe system fire department connections indicated [3.2.5.15.(1)]	□ Yes	\square No
f.	Sprinkler system fire department connection indicated [3.2.5.15.(2)]	□ Yes	□ No
g.	Other conditions:	□ Yes	□ No
	BC Subsection 3.2.9 – Integration of fire protection and life safety system and ard for Integrated Systems Testing of Fire Protection and Life Safety Systems	ns (CAN/ULC	C-S1001)
Bu	ilding subject to CAN/ULC-S1001 standard (3.2.9.1)	□ Yes	□ No
En	vironmental Separation (MBC Part 5))		
	IBC Section 5.3 – Heat transfer		
а	. Placement and types of primary insulation layers in environmental separations (de	scribe):	
N	IBC Section 5.4 – Air leakage		
a	Air-barrier systems utilized (describe):		
N	IBC Section 5.5 – Vapour diffusion		
а	. Vapour barrier materials used and location (describe):		
N	IBC Section 5.6 – Precipitation		
a	a. Roofing and flashing systems (describe):		





b.	Drainage and disposal systems (describe):
ME	BC Section 5.7 – Surface and ground water
a.	Methods used to control surface water (describe):
a.	Methods used to control moisture in the ground (describe):
b.	Penetration of service elements:
	Methods used to accommodate penetrations by windows, doors, electrical services, mechanical services, etc. (describe):
	Walls: ☐ Sound transmission class rating (STC), or ☐ Apparent sound transmission class rating (ASTC)
b.	Floors: Sound transmission class rating (STC), or Apparent sound transmission class rating (ASTC)
	Affix seal with signature and date