

Electrical Design Summary

Project description/name 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 code references refer to the Winnipeg Electrical By-law (WEB), including Canadian Electrical Code, unless indicated otherwise.
- 3. Indicate all items that are not applicable.

1.	. General				
a.	. Wiring methods suitable for non-combustible construction are required	\Box Yes	□ No		
b.	. Electrical specification provided \Box on drawings \Box in specification	ications book			
C.	. Sprinklered				
	Partially sprinklered specify location(s)				
d.	. Consumer's Service A: V: phase: wire:				
e.	. Service conductor routing: O/H U/G thru wall other (describe routing)	g details):			
f.	Ground fault protection required	□ Yes	□ No		
g.	. Single line diagram provided	\Box Yes			
h.	. U/G cable ampacities diagram: detail:	table:			
i.	Service grounding conductor size and type (specify):				
j.	Grounding electrode: \Box metallic water pipe or \Box artificial				
k.	. Grounding detail provided	\Box Yes	□ Existing		
I.	IC ratings: Service entry kA 600V CDP kA 600V panel kA 208V CDP kA 208V panel kA				
m. Dielectric filled transformer clearance (utility or customer-owned)					
	Outdoor location $\square \ge 3m$ or \square transformer as per 26-242(2) if <3m				
	Indoor location as per 26-010, req'd to be in a vault compliant w/ MBC 3.6.2	2.7 🗆 Yes	□ N/A		
n.	. Working space requirements				
о.	. Panel locations shown	□ Yes			



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p. Exits from electrical rooms as per 2-310					□ Yes	□ N/A	
q. Sprinkler shielding provided							
r. Flood plain requirement details					_ or	□ N/A	
s. Landfill requirement details					_ or	□ N/A	
t. Wiring and equipment in plenums meet M	IBC 3.1.5.21, 3.1.5	.23 & 3.	.6.4.3 requiremer	nts	□ Yes	□ N/A	
2. Exit signage (see MBC Subsection	3.4.5)		Check if not a	pplica	able 🗆		
a. Exit sign locations shown					□ Yes		
b. Dedicated exit sign cct. or exit sign/emerge	gency lighting cct.				□ Yes		
c. Type of signs provided	\Box red EXIT (to ma	tch exis	sting)	or	🗆 green pi	ctogram	
d. Power supply	er supply hard-wired photoluminescent (checklist attached) other (specify)						
3. Emergency lighting (see MBC Subs	ection 3.2.7)		Check if not a	pplica	able 🗆		
a. Emergency lighting locations shown					□ Yes		
b. Emergency power supply	□ battery	or	\Box generator				
c. Emergency power duration	□ ½ hour		□ 1 hour		\Box 2 hours		
d. WEB compliance	□ 46-106	and	□ 46-304(4) -	for un	unit equipment only		
4. Fire alarm system (see MBC Subsection 3.2.4) Check if not applicable							
a. Fire alarm system required	□ Yes		□ No		Voluntar	У	
b. Fire alarm system:	□ Existing		□ New				
c. Fire alarm system specifications provided	l				□ Yes		
d. Fire alarm riser diagram relevant to this p	roject provided				□ Yes	□ N/A	
e. Zone schedule provided					□ Yes	□ N/A	
f. Type of fire alarm:	□ 1 stage	or	□ 2 stage				
and	□ addressable	or	□ conventional				
g. Fire alarm annunciator location(s) shown					□ Yes		
h. Manual pull stations shown					□ Yes		
i. Fire detectors shown					□ Yes	□ N/A	
j. Sprinkler system supervision provided					□ Yes	□ N/A	
k. Standpipe supervision provided					□ Yes	□ N/A	
I. Latching supervisory zones provided					□ Yes	□ N/A	
m. Elevator emergency return/alternate floor recall provided			□ Yes	□ N/A			



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n. Smoke detector(s) provided for air-handler shutdown	□ Yes	□ N/A
o. Central vacuum shutdown required/provided	□ Yes	□ N/A
p. Cooking exhaust hood extinguisher connection to FA system provided	□ Yes	□ N/A
q. Audible signal devices provided/shown	□ Yes	
r. Visual signal devices provided/shown	□ Yes	□ N/A
s. Central reporting required	□ Yes	□ N/A
t. Emergency power supply		
u. Lock-on breaker painted red and c/w red lamicoid label	□ Yes	
5. Carbon monoxide alarms (see MBC 6.9.3.1 and 6.9.3.2)		
Not applicable (i.e.: the building does not contain a fuel-burning appliance, storage garag sources of carbon monoxide)	e or other	□ (check)
a. CO alarms required/provided \Box Yes, to meet MBC 6.9.3.1 or \Box Yes,	to meet MBC	6.9.3.2
b. CO alarm locations required in item a. have been coordinated with the mechanical engine	eer	□ Yes
c. CO alarms shown on:	ings	
6. Smoke or Combination Smoke/Fire dampers (see MBC 3.1.8.7. and 3.1.8.11.)	
a. Smoke or combination smoke/fire dampers	□ Yes	□ N/A
b. Locations required in item (a.) have been coordinated with the Mechanical Engineer	□ Yes	
c. Smoke or combination smoke/fire dampers shown on:	rings	
d. Smoke detector required/provided		□ N/A
e. Smoke detector connected to fire alarm	□ Yes	□ N/A
7. Door hardware/control (or other closure) Check if not applied	able □	
a. Door holders provided and indicated on drawings	□ Yes	□ N/A
Door holder FA release provided	□ Yes	□ N/A
Smoke detection for door holders located per CAN/ULC-S524	□ Yes	□ N/A
b. Electromagnetic door locks provided and indicated on drawings	□ Yes	□ N/A
Completed electromagnetic locks checklist attached	□ Yes	□ N/A
8. Emergency generator Check if not applied	able □	
a. Emergency generator location shown	□ Yes	
b. Compliance with MBC 3.6.2.8.(1)	□ Yes	□ N/A
c. Compliance with 🛛 CAN/CSA C-282 🖓 CSA Z32		
d. Generator trouble supervision	🗆 Local	Remote



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e. Emergency lighting c/w TVSS provided in generator room		□ Yes	□ N/A	
f. Emergency lighting c/w TVSS provided in transfer switch room		□ Yes	□ N/A	
g. Dedicated ULC transfer switches for life safety and non-life safety loa	ads	□ Yes	□ N/A	
h. Isolation & manual by-pass provided for Groups B & C occupancies	per CSA C282	□ Yes	□ N/A	
9. Fire pump	Check if not applica	ıble □		
a. Shown on single line diagram		□ Yes		
b. Required emergency generator power provided		□ Yes		
c. Remote trouble supervision provided		□ Yes		
d. Fire alarm supervision provided		□ Yes		
e. Dedicated transfer switch approved for fire pump service as per WE	B 32-308	□ Yes		
f. Overcurrent protection for normal and emergency sources provided	as per WEB 32-306	□ Yes		
10. Other electrical design considerations				
a. High buildings requirements (MBC Subsection 3.2.6)		□ Yes	□ N/A	
b. Hazardous locations (WEB Sections 18 and 20)		□ Yes	□ N/A	
If yes, locations/classifications indicated on drawings	□ (check)			
c. Patient care areas (WEB Section 24)		□ Yes	□ N/A	
If yes, locations/classifications:	s or \Box provided by f	acility adminis	strator	
d. Wet and/or corrosive environments (WEB Section 22)		□ Yes	□ N/A	
If yes, locations indicated on drawings	□ (check)			
e. Solar PV installation (WEB Section 64)		□ Yes	□ N/A	
f. Non-life-safety generator		□ Yes	□ N/A	
If yes, location indicated on drawings and on single line diagram	□ (check)			
11. Barrier-free requirements Check if not application		ıble □		
a. Fire-resistance for elevator conductors required/provided – MBC 3.3	8.1.7.(1)(a)	□ Yes	□ N/A	
b. Assistive listening system required/provided – MBC 3.8.3.19.		□ Yes	□ N/A	
12. Residential units	Check if not applica	ıble □		
a. Smoke alarms – locations / circuiting / interconnection		□ Yes		
b. Carbon monoxide alarms – locations / circuiting		□ Yes	□ N/A	
c. Heat detector provided / shown per MBC 3.2.4.10.(2)(g)		□ Yes	□ N/A	



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 d. Fire alarm audible device(s) provided / shown Isolated from other suites per MBC 3.2.4.18.(9) On a separate signal circuit from devices in public areas per MBC 3.2.4.18.(10) 	☐ Yes☐ Yes☐ Yes			
e. Fire alarm visual devices provided / shown	\Box Yes			
f. GFCI protection for receptacles provided per WEB Section 26	\Box Yes			
g. Switches/communication outlets in bathrooms not < 1m from tubs / showers	\Box Yes			
h. Mandatory circuits provided as per WEB Section 26	\Box Yes			
i. Electric heat control in each area	\Box Yes	□ N/A		
12a. Additional requirements for dwelling units				
a. Dwelling unit panel locations shown	\Box Yes			
b. Kitchen receptacles and circuits as per WEB Section 26	\Box Yes			
c. Lighting / switched outlets provided / shown in each room	\Box Yes			
d. AFCI protection provided	□ Yes			
13. Electrical systems installed under separate permit Check if not applicable				
a		_		
b		_		
C		_		
14. Integration of fire protection and life safety systems (CAN/ULC-S1001) Standard for Integrated Systems Testing of Fire Protection and Life Safety Systems				
a. Building subject to CAN/ULC-S1001 standard (3.2.9.1)	□ Yes	□ N/A		

Affix seal with signature and date