

DESIGN PARAMETERS

1.

THIS BUILDING IS DESIGNED IN ACCORDANCE WITH, AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NATIONAL BUILDING CODE OF CANADA 2015.
2.

DO NOT SCALE DRAWINGS.
3.

VERIFY ALL DIMENSIONS, ELEVATIONS, SLOPES, DETAILS, CONDITIONS, ETC. SHOWN ON THE DRAWINGS PRIOR TO CONSTRUCTION OR PREFABRICATION OF ANY BUILDING COMPONENTS.
4.

DISCREPANCIES OR AMBIGUITIES ON THE DRAWING AND/OR THE SITE SHALL BE REPORTED TO THE DEPARTMENTAL REPRESENTATIVE.
5.

FOR OPENINGS IN SLAB, FLOORS, WALLS, ROOFS, ETC. REFER TO PERTINENT DRAWINGS.
6.

THE GENERAL CONTRACTOR SHALL NOTIFY THE DEPARTMENTAL REPRESENTATIVE AT LEAST 72 HOURS TO ALLOW FOR SITE REVIEWS. SITE REVIEWS SHOULD GENERALLY OCCUR AS EACH TRADE IS STARTING AND FINISHING AND AS OTHERWISE APPROPRIATED.
7.

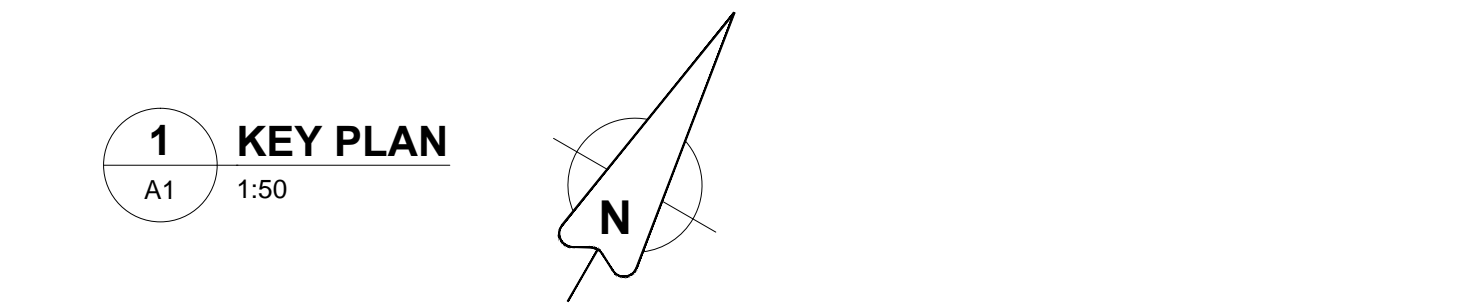
ALL WORK TO BE CARRIED OUT IN A GOOD WORKMANSHIP LIKE MANNER TO ENSURE QUALITY AND SERVICEABILITY OF THE BUILDING.
8.

ALL ROUGH OPENINGS TO BE CONFIRMED WITH THE PRODUCT OR EQUIPMENT SUPPLIER OR MANUFACTURER.

SITE INFORMATION

NOTE:
PROPERTY INFORMATION HAS BEEN COMPILED FROM VARIOUS SOURCES AND IS GIVEN TO THE BEST OF OUR KNOWLEDGE.

ADDRESS:
154 COLUMBINE STREET
WASAGAMING, MB



ARCHITECTURAL CODE REVIEW

THIS CODE REVIEW WAS DONE FOR THE FOUNDATION REPLACEMENT SCOPE OF WORK ONLY. CODE COMPLIANCE WAS NOT REVIEWED FOR AREAS OUTSIDE THE SCOPE OF WORK.

GENERAL:

1.

MAJOR OCCUPANCY CLASSIFICATION (9.10.2): GROUP E
2.

OTHER INTENDED OCCUPANCY GROUP(S): N/A
3.

BUILDING AREA(S): BUILDING = 113.2m²
4.

BUILDING HEIGHT: 1 STOREY FACING NUMBER OF STREETS: 1
5.

BUILDING IS NOT SPRINKLERED
6.

FIREWALL(S): N/A
7.

LOCATION (GRID LINE): N/A

SECTIONS 9.5 - BARRIER FREE DESIGN

1.

EXISTING HERITAGE BUILDING, NOT BARRIER FREE
2.

GENERAL (9.5.2.1): BUILDING SHALL CONFORM TO SECTION 3.8
3.

BARRIER-FREE PATH OF TRAVEL (3.8.1.3): NO, EXISTING
4.

ACCESS TO PARKING AREAS (3.8.2.2): YES
5.

EXTERIOR WALKS (3.8.3.2): YES
6.

DOORWAYS AND DOORS (3.8.3.3): NO, EXISTING
7.

RAMPS (3.8.3.4): NO, EXISTING
8.

WATER CLOSETS (3.8.3.9): NO, EXISTING
9.

LAVATORIES (3.8.3.11): NO, EXISTING
10.

UNIVERSAL TOILET ROOMS (3.8.3.12): NO, EXISTING
11.

COUNTERS (3.8.3.14): N/A

SECTIONS 9.8 - STAIRS, RAMPS, HANDRAILS, AND GUARDS

1.

STAIR WIDTH (9.8.2.1.(3)): GREATER OF
a) 900 mm MINIMUM REQUIRED
b) 31 x 8mm = 248 mm
2.

DIMENSIONS FOR RISERS (TABLE 9.8.4.1): PUBLIC - 200 mm MAXIMUM, 125 mm MINIMUM
3.

DIMENSIONS FOR RECTANGULAR TREADS (9.8.4.2): PUBLIC - NO LIMIT MAXIMUM, 280 mm MINIMUM
4.

CONTINUITY OF HANDRAILS (9.8.7.2): HANDRAILS ARE CONTINUOUS ALONG STAIRS AND LANDINGS
5.

HEIGHT OF HANDRAILS (9.8.7.4.(3)): BETWEEN 865mm AND 1070mm
6.

PROJECTIONS INTO STAIRS AND RAMPS (9.8.7.6): 100mm MAXIMUM PROJECTION INTO REQUIRED WIDTH OF STAIRS
7.

REQUIRED GUARDS (9.8.8.1 & 9.8.8.3): REQUIRED WHERE DIFFERENCE IN ELEVATION EXCEEDS 600 mm BETWEEN ADJACENT SURFACES, MINIMUM HEIGHT 1070 mm

ARCHITECTURAL CODE REVIEW CONT'D

THIS CODE REVIEW WAS DONE FOR THE FOUNDATION REPLACEMENT SCOPE OF WORK ONLY. CODE COMPLIANCE WAS NOT REVIEWED FOR AREAS OUTSIDE THE SCOPE OF WORK.

SECTIONS 9.9 - MEANS OF EGRESS

1.

DESIGN OCCUPANT LOAD (9.9.1.3): USE TABLE 3.1.17.1
2.

TYPES OF EXITS (9.9.2.1): EXITS FROM ANY FLOOR AREA SHALL BE USED SINGLY OR IN COMBINATION - AN EXTERIOR DOORWAY, EXTERIOR PASSAGEWAY, EXTERIOR STAIRWAY
3.

ONE EXIT (9.9.7.4): GROUP E - MAX. AREA 150m², TRAVEL DISTANCE 15m
4.

TRAVEL DISTANCE (9.9.8.2.): 30m
5.

SHARED EGRESS FACILITIES (9.9.9.3): N/A

SECTIONS 9.10 - FIRE PROTECTION

1.

FIRE RESISTANCE RATING (FRR) FOR STRUCTURAL MEMBERS & ASSEMBLIES (9.10.8.1)
- MAXIMUM BUILDING HEIGHT (STOREYS): 1
- FLOORS: NOT REQUIRED OVER CRAWLSPACES (NOT EXCEED 1.8m IN HEIGHT) SO NO FRR FOR FLOOR, NO OCCUPANCY (9.10.8.9)
ROOFS: NOT REQUIRED
2.

FRR FOR WALLS, COLUMNS & ARCHES (9.10.8.3): NOT REQUIRED
3.

SEPARATION OF RESIDENTIAL SUITES (9.10.9.14): N/A
4.

SEPARATION OF SERVICE ROOMS (9.10.10.3): NOT REQUIRED, NOT A FIRE HAZARD
5.

SPATIAL SEPARATION BETWEEN BUILDINGS (9.10.14.4):
-(1) CONFORM TO ADJACENT TABLE (9.10.14.4.A & 9.10.14.5.A)
-(3) MAXIMUM CONCENTRATED AREA OF UNPROTECTED OPENINGS 1.88m² (20.2 sqft) @ 1.5m LIMITING DISTANCE (9.10.14.4.B)
-(4) UNPROTECTED OPENING MUST BE 2m (6'-7") APART IF LIMITING DISTANCE LESS THAN 2 m

LIMITING DISTANCES USE TABLE 9.10.14.4.A & TABLE 9.10.14.5.A									
FACING	FIRE COMPARTMENT LENGTH	FIRE COMPARTMENT HEIGHT	FIRE COMPARTMENT AREA	LIMITING DISTANCE	% ALLOWED UNPROTECTED OPENINGS	% ACTUAL UNPROTECTED OPENINGS	FIRE RESISTANCE RATING	CONSTRUCTION	CLADDING
WEST	7.288m	2.887m	21.0m ²	22.18m	-	-	-	COMBUSTIBLE OR NONCOMBUSTIBLE	COMBUSTIBLE OR NONCOMBUSTIBLE
*NORTH	18.170m	2.655m	48.2m ²	6.38m	29%	13.4%	1HR	COMBUSTIBLE OR NONCOMBUSTIBLE	*NONCOMBUSTIBLE
EAST	7.288m	2.655m	19.4m ²	6.34m	50.1%	3.3%	1HR	COMBUSTIBLE OR NONCOMBUSTIBLE	COMBUSTIBLE OR NONCOMBUSTIBLE
SOUTH	18.170m	2.887m	52.5m ²	11.71m	77.1%	19.7%	1HR	COMBUSTIBLE OR NONCOMBUSTIBLE	COMBUSTIBLE OR NONCOMBUSTIBLE

*9.10.14.5.(3) CLADDING CAN BE COMBUSTIBLE CONSTRUCTION AS THE LIMITING DISTANCE IS MORE THAN 5m.

6.

FIRE ALARM SYSTEM REQUIRED (9.10.18.2): NOT REQUIRED, ONE IS INSTALLED
7.

REQUIRED SMOKE ALARMS (9.10.19.1): NOT REQUIRED
8.

CARBON MONOXIDE DETECTORS (9.10.19.8): NOT REQUIRED

SECTIONS 9.11 - SOUND CONTROL

1.

MINIMUM SOUND TRANSMISSION CLASS RATING (9.11.2.1): NONE

SECTIONS 9.13.4 - SOIL GAS CONTROL

1.

9.13.4.3 PROVIDE FOR THE ROUGH-IN FOR A SUBFLOOR DEPRESSURIZATION SYSTEM: YES, SEE MECHANICAL FOR DETAILS.

SECTIONS 9.25 - HEAT TRANSFER, AIR LEAKAGE AND CONDENSATION CONTROL

1.

REQUIRED BARRIER TO AIR LEAKAGE (9.25.3.1): WALL, CEILING, AND FLOOR ASSEMBLIES SHALL PROVIDE A CONTINUOUS BARRIER TO AIR LEAKAGE FROM THE INTERIOR INTO THE WALL, FLOOR, AND ROOF SPACE; AND FROM THE EXTERIOR OR GROUND INWARD.
2.

AIR BARRIER SYSTEM PROPERTIES (9.25.3.2): PROVIDE A BARRIER TO AIR INFILTRATION AND EXFILTRATION UNDER DIFFERENTIAL AIR PRESSURE.
CONTINUITY OF THE AIR BARRIER SYSTEM (9.25.3.3): PENETRATIONS OF THE AIR BARRIER SYSTEM SHALL BE SEALED TO MAINTAIN INTEGRITY OF THE AIR BARRIER SYSTEM
3.

REQUIRED BARRIER TO VAPOUR DIFFUSION (9.25.4.1): THERMALLY INSULATED WALL, CEILING, AND FLOOR ASSEMBLIES SHALL BE CONSTRUCTED WITH A VAPOUR BARRIER
4.

VAPOUR BARRIER MATERIALS (9.25.4.2):
-WHERE POLYETHYLENE IS INSTALLED AS THE VAPOUR BARRIER, IT SHALL WITH CLAUSE 4.4 AND 5.7 OF CAN/CGSB-51.34-M
5.

INSTALLATION OF VAPOUR BARRIER (9.25.4.3): VAPOUR BARRIER SHALL PROTECT WARM SIDE OF WALL, CEILING AND FLOOR ASSEMBLIES

SECTIONS 9.36 - ENERGY EFFICIENCY

1.

TABLE 9.36.2.8 - B BUILDING ASSEMBLY BELOW-GRADE: ZONE 7A - RSI 2.98
2.

9.36.2.8.4.(a) - EXTERIOR OF FOUNDATION WALL INSULATED DOWN TO FOOTING, INSULATION BELOW SLAB NOT REQUIRED.

FOUNDATION WALL RSI CALCULATION	
ASSEMBLY COMPONENT	RSI, (m ² •K)/W
TOTAL RSI REQUIRED (9.36.2.8-B): 2.98 RSI	
EXTERIOR AIR FILM	0.03
PORTLAND CEMENT STUCCO (19mm)	0.0171
PRESSURE TREATED PLYWOOD (12.7mm)	0.109
BOARD INSULATION (63.5mm)	2.79*
MOD BITUMINOUS SHEET WATER PROOFING	-
CONCRETE WALL (305mm)	0.122
INTERIOR AIR FILM	0.12
TOTAL	3.18
*INSULATION RSI ACHIEVED BY USING FOIL-FACED POLYISOCYANURATE CONTINUOUS FOAM INSULATION	

WALL SCHEDULE	
SYMBOL	DESCRIPTION
①	NEW FOUNDATION WALL CONSTRUCTION (EFFECTIVE RSI = 2.98): - PORTLAND CEMENT STUCCO - 12.7mm PRESSURE TREATED PLYWOOD - 63.5mm BOARD INSULATION - MODIFIED BITUMINOUS SHEET WATER PROOFING - CONCRETE WALL (SEE STRUCTURAL FOR DETAILS)

ABBREVIATION LEGEND	
NOTE: REFER TO STRUCTURAL, MECHANICAL AND ELECTRICAL FOR FURTHER ABBREVIATIONS	
ABBREVIATION	DESCRIPTION
A.F.F	ABOVE FINISHED FLOOR
CAN/CGSB	CANADIAN GENERAL STANDARDS BOARD CATALOGUE
DR.	DRIVE
ETC	ETCETERA
FIN	FINISH
FRR	FIRE RESISTANCE RATING
GLAZ	GLAZING
HR	HOUR
INSUL	INSULATION
M	METRE
MATL	MATERIAL
MAX.	MAXIMUM
MB	MANITOBA
MIL	UNIT OF MEASUREMENT (0.0254 MILLIMETRE)
MIN.	MINIMUM
mm	MILLIMETRE
N/A	NOT APPLICABLE
ng/(Pa•s•m)	UNIT OF MEASUREMENT (PERM)
NTS	NOT TO SCALE
PT	PAINT
R-VALUE	THERMAL RESISTANCE
RSI	R-VALUE SYSTEM INTERNATIONAL
SET NO.	SET NUMBER
ST	STEEL
ST.	STREET
sq.ft.	SQUARE FEET
T/O	TOP OF
THICK	THICKNESS
TYP.	TYPICAL
U-VALUE	THERMAL TRANSMITTANCE
U/S	UNDERSIDE OF

SYMBOL LEGEND	
NOTE: REFER TO STRUCTURAL, MECHANICAL AND ELECTRICAL FOR FURTHER SYMBOLS	
SYMBOL	DESCRIPTION
	NORTH ARROW
	SECTION MARK
	NEW ELEMENTS
	EXISTING ELEMENTS
	EXISTING PROPERTY LINE
	GRIDLINE
	WALL / FLOOR / ROOF TAG
	CONSTRUCTION KEY NOTE
	ARROW INDICATING FLOW OF TRAFFIC
	EXISTING CONIFEROUS TREE
	EXISTING DECIDUOUS TREE
	NEW DOOR
	EXISTING DOOR
	EXISTING WINDOW
	ELEVATION MARKER
	DETAIL CALL OUT
	DIAMETER
	DOOR TAG

HATCH LEGEND	
NOTE: REFER TO STRUCTURAL, MECHANICAL AND ELECTRICAL FOR FURTHER HATCHES	
HATCH	DESCRIPTION
	CONCRETE
	GRASS
	STONE
	INSULATION
	PORTLAND CEMENT STUCCO
	ASPHALT SHINGLES
	FIRM IN-SITU SOIL
	BACK FILL MATERIAL
	SUB BASE

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Public Works and Government Services Canada

Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES

Western Region

SERVICES IMMOBILIERS

Région de l'ouest

5

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2

1

ISSUED FOR CONSTRUCTION

2018/04/10

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ISSUED FOR REVIEW

2018/01/31

Revision

Description

Date

Client

client

PARKS CANADA AGENCY

135 WASAGAMING DR.

Project title

Project

WASAGAMING, MB

154 COLUMBINE ST.

FOUNDATION REPLACEMENT

Designed by

Conçu par

MS

Drawn by

Dessiné par

JB

Approved by

Approuvé par

MS

PWGC Project Manager

Administrateur de Projets TPSGC

Drawing title

Titre du dessin

DESIGN PARAMETERS,

SITE INFORMATION, KEY PLAN

CODE REVIEW, GENERAL NOTES,

ABBREVIATIONS, AND SYMBOLS

Project no./No. du projet

Drawing no./No. du dessin

Revision no.

PRO1272

A1

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