



279 STE. MARIE
STREET
COLLINGWOOD, ON.
L9Y 3K6
(705) 888-6300

BCIN SIGNATURE:

THE UNDERSIGNED HAS REVIEWED AND TAKES RESPONSIBILITY FOR THIS DESIGN, AND HAS THE QUALIFICATIONS AND MEETS THE REQUIREMENTS SET OUT IN THE ONTARIO BUILDING CODE AS A QUALIFIED DESIGNER UNDER DIVISION C SECTION 3.2.4.

JAMES SCHNEIDER	IND. BCIN#	22823
JASPER DESIGN	FIRM BCIN#	101098

SIGNATURE: _____

DATE:

CODE DESIGNATION:

PART 9 O.B.C.

REVISIONS:

DATE:	SUMMARY:
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NOTES:

NOTE:
CONTRACTOR IS TO VERIFY ALL
DIMENSIONS PRIOR TO CONSTRUCTION, AND
REPORT ANY DISCREPANCIES TO JASPER
DESIGN

NOTE:
CONTRACTOR IS RESPONSIBLE TO INSTALL
ANY AND ALL REQUIRED TEMPORARY
BRACING DURING CONSTRUCTION, AND ALL
BRACING THAT MAY BE REQUIRED FOR
ROOF TRUSSES AS PER TRUSS
MANUFACTURER

NOTE:
DRAWINGS ARE NOT TO BE SCALED

NOTE:
THE MINIMUM REQUIRED SOIL BEARING
CAPACITY IS TO BE 1500 P.S.F UNLESS
OTHERWISE SPECIFIED

DATE:

2020-02-27

PROJECT:

BLACKMOOR
COMMUNITY
CENTRE

PROJECT LOCATION:

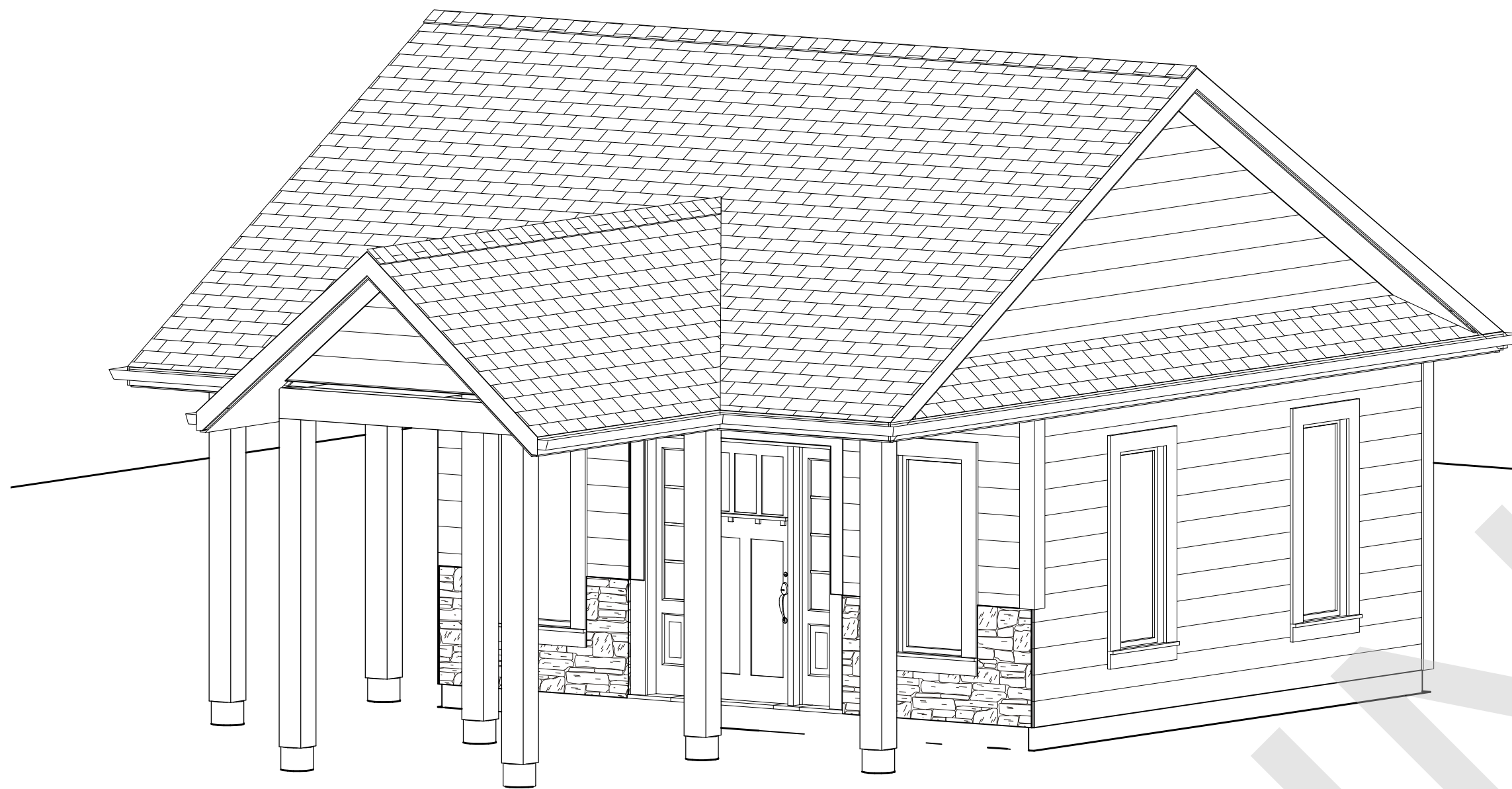
COLLINGWOOD, ON

SCALE:

NOT TO SCALE

SHEET NO.

A - 1



BLACKMOOR COMMUNITY CENTRE



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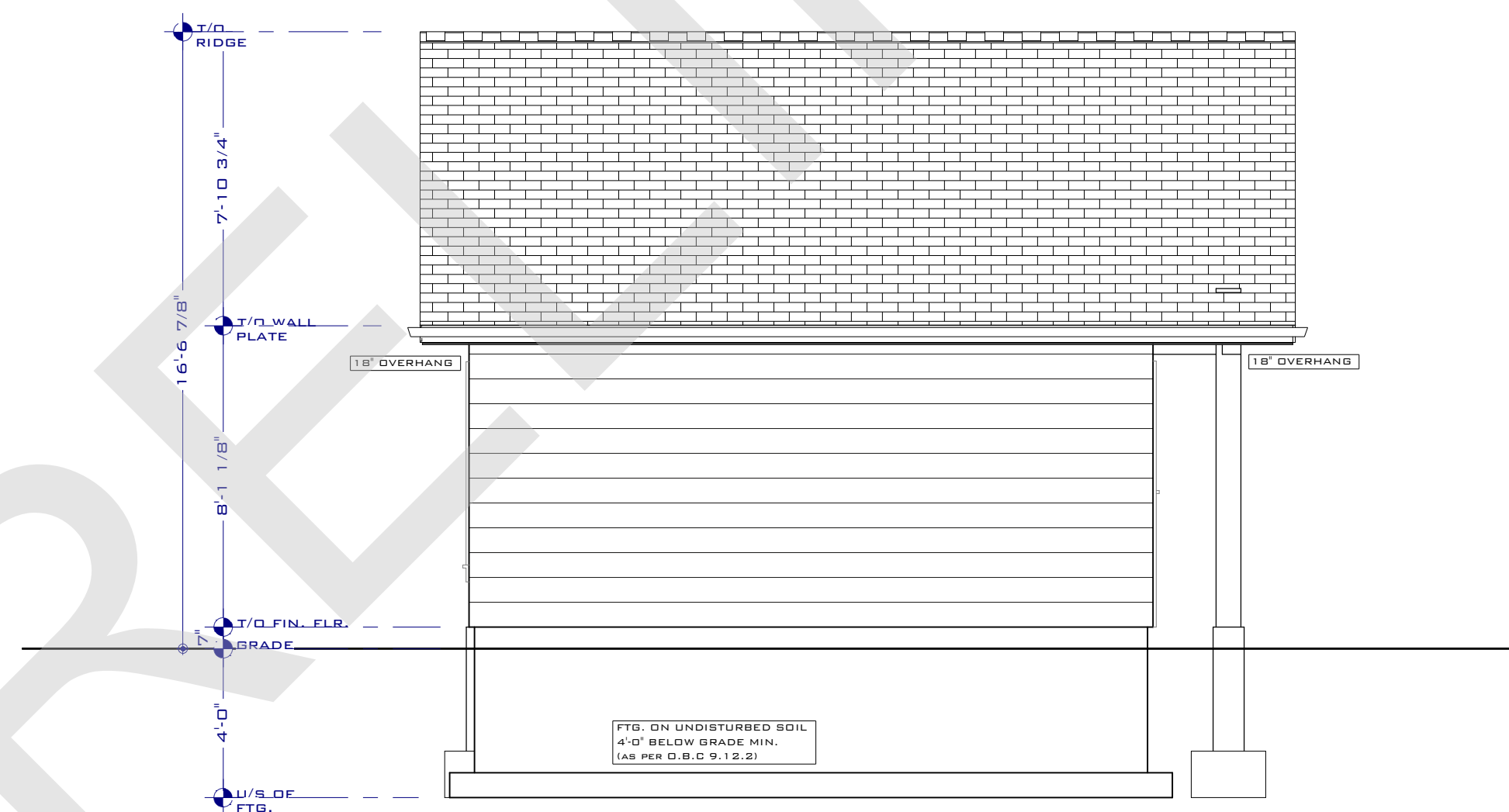
1 / 4"	= 1 FOOT
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SHEET NO.

A - 2



FRONT ELEVATION



REAR ELEVATION



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COMMUNITY
CENTRE

PROJECT LOCATION:

COLLINGWOOD, ON

SCALE:

1 / 4"	= 1 FOOT
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SHEET NO.

A - 3

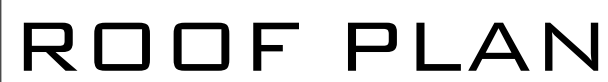




 BEAM SCHEDULE	
MEMBER SIZE	
#	dB=DROPPED fb=FLUSH
1	4 PLY 2"x10" SPF, NO. 1 OR 2 (AS PER D.B.C. PART 9 TABLE A-12)
2	
3	
4	
5	
6	

ROOF PLAN

NOTE: TRUSS MANUFACTURER TO SITE MEASURE SPAN, HEEL HEIGHT, AND OVERHANG TO VERIFY DIMENSIONS (PRIOR TO PRODUCTION)
NOTE: ALL EXTERIOR WALLS SUBJECT TO SNOW ACCUMULATION DUE TO ROOF CONDITIONS ARE TO BE FLASHED AS PER O.B.C. 9.26.4
NOTE: TRUSS MANUFACTURER IS TO DROP THE TOP CHORD ON ALL HIP END TRUSSES TO ALLOW FOR THE INSTALLATION OF 1 1/2"x31/2" PURLINS PRIOR TO SHEATHING



NOTES:
NOTE: TRUSS MANUFACTURER TO SITE MEASURE SPAN, HEEL HEIGHT, AND OVERHANG TO VERIFY DIMENSIONS (PRIOR TO PRODUCTION)
NOTE: ALL EXTERIOR WALLS SUBJECT TO SNOW ACCUMULATION DUE TO ROOF CONDITIONS ARE TO BE FLASHED AS PER O.B.C. 9.26.4



D-1 AIR/ VAPOUR BARRIER @ T/O FND. WALL
A-8 SCALE: 1" = 1'-0"

DOOR SCHEDULE								
NUMBER	ELEV.	QTY	FLOOR	WIDTH	HEIGHT	R/O	DESCRIPTION	COMMENTS
D01		1	1	68 "	80 "	69"x81"	MULLED UNIT-LHL/RHR	
D02		1	1	71 1/2 "	80 "	74"x82 1/2"	GARAGE-GARAGE DOOR CHD06	
D03		1	1	71 1/2 "	80 "	74"x82 1/2"	4 DR. BIFOLD-DOOR P05	

NOTE:
THE WINDOW AND DOOR STYLES THAT ARE SHOWN ARE RECOMMENDATIONS AND THE CLIENT AND CONTRACTOR ARE TO DETERMINE THE FINAL CHOICES PRIOR TO ORDERING.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
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GENERAL NOTES

- CONSTRUCTION SHALL BE EXECUTED AS PER DRAWINGS. NO ADDITIONS OR REVISIONS WITHOUT WRITTEN PERMISSION FROM JASPER DESIGN.
- CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS ON THE SITE AND WITH ALL SUPPLIERS, AND REPORT ANY DISCREPANCIES OR ERRORS TO JASPER DESIGN PRIOR TO COMMENCING OF ANY WORK.
- SECURE AND PAY FOR ALL PERMITS AND LICENSES AS NECESSARY FOR PROPER EXECUTION AND COMPLETION OF WORK. THE CONTRACTOR SHALL NOT PROCEED WITH THE WORK BEFORE OBTAINING ALL THE PERMITS IN RESPECT TO THEIR WORK.
- ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE CODES AND REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION.
- THE WORK SHALL COMPLY WITH ALL CONSTRUCTION SAFETY REQUIREMENTS OF THE OCCUPATIONAL HEALTH & SAFETY ACT AND THE FIRE CODE OF ONTARIO, AS WELL AS OTHER APPLICABLE REGULATIONS OF JURISDICTION AUTHORITIES
- ALL WORK SHALL BE GUARANTEED AGAINST DEFECTS OF MATERIALS AND WORKMANSHIP FOR A PERIOD AS AGREED TO BY OWNER AND CONTRACTOR.
- WHEREVER SHOP DRAWINGS ARE CALLED FOR IN ANY SECTION, ALL WORK OF THAT SECTION SHALL BE EXECUTED IN STRICT ACCORDANCE WITH THOSE SHOP DRAWINGS REVIEWED BY JASPER DESIGN AND/OR OWNER AND/OR ENGINEER. THESE SHALL BE COMPLETE DETAILS OF ALL CONDITIONS, CONSTRUCTION, AND INTERFACING.
- GENERAL CONDITIONS OF "CANADIAN STANDARD CONSTRUCTION DOCUMENT, CDOC 2, 1994" GOVERN THE WORK OF THIS PROJECT.
- ALL WORK NOT FULLY SPECIFIED HEREIN SHALL BE APPROVED BY THE OWNER

CONSTRUCTION NOTES (BY O.B.C. CODE REFERENCE)

9.3.1. CONCRETE
9.3.1.1. GENERAL

- EXCEPT AS PROVIDED IN SENTENCE (2), UNREINFORCED AND NOMINALLY REINFORCED CONCRETE SHALL BE DESIGNED, MIXED, PLACED, CURED, AND TESTED IN ACCORDANCE WITH THE REQUIREMENTS FOR "R" CLASS CONCRETE STATED IN CLAUSE 8.13 OF CSA A23.1, "CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION"
- UNREINFORCED AND NOMINALLY REINFORCED SITE-BATCHED CONCRETE SHALL BE DESIGNED, MIXED, PLACED, AND CURED IN ACCORDANCE WITH ARTICLES 9.3.1.1.2. TO 9.3.1.1.9.

9.3.1.2. CEMENT

- CEMENT SHALL MEET THE REQUIREMENTS OF CAN/CSA-A3001 "CEMENTITIOUS MATERIALS FOR USE IN CONCRETE"

9.3.1.6. COMPRESSIVE STRENGTH

- EXCEPT AS PROVIDED ELSEWHERE IN THIS PART, THE COMPRESSIVE STRENGTH OF UNREINFORCED CONCRETE AFTER 28 DAYS SHALL BE NOT LESS THAN:
 - 32 MPA FOR GARAGE FLOOR, CARPORT FLOORS, AND ALL EXTERIOR PLATWORK;
 - 20 MPA FOR INTERIOR FLOORS OTHER THEN THOSE FOR GARAGES AND CARPORTS, AND
 - 15 MPA FOR ALL OTHER APPLICATIONS

- CONCRETE USED FOR GARAGE AND CARPORT FLOORS AND EXTERIOR STEPS SHALL HAVE AIR ENTRAINMENT OF 5% TO 8%.

9.3.2. LUMBER AND WOOD PRODUCTS
9.3.2.1. GRADE MARKING

- LUMBER FOR JOISTS, RAFTERS, TRUSSES AND BEAMS, AND FOR THE USES LISTED IN TABLE 9.3.2.1, SHALL BE IDENTIFIED BY A GRADE STAMP TO INDICATE ITS GRADE AS DETERMINED BY THE NLGA, "STANDARD GRADING RULES FOR CANADIAN LUMBER" (SEE APPENDIX A)

9.3.2.2. LUMBER GRADES

- EXCEPT FOR JOISTS, RAFTERS, TRUSSES, AND BEAMS, VISUALLY GRADED LUMBER SHALL CONFORM TO THE GRADES IN TABLE 9.3.2.1.

9.4.3. DEFLECTIONS
9.4.3.1. DEFLECTIONS

- THE MAXIMUM DEFLECTION OF STRUCTURAL MEMBERS SHALL CONFORM TO TABLE 9.4.3.1.

9.4.4. FOUNDATION CONDITIONS

9.4.4.1. ALLOWABLE BEARING PRESSURE

- FOOTING SIZES FOR SHALLOW FOUNDATIONS SHALL BE:
 - DETERMINED IN ACCORDANCE WITH SECTION 9.15., OR
 - DESIGNED IN ACCORDANCE WITH SECTION 4.2, USING:
 - THE MAXIMUM ALLOWABLE BEARING PRESSURES IN TABLE 9.4.4.1., OR
 - ALLOWABLE BEARING PRESSURES DETERMINED FROM SUBSURFACE INVESTIGATION.

9.4.4.3. HIGH WATER TABLE

- WHERE A FOUNDATION BEARS ON GRAVEL, SAND OR SILT, AND THE WATER TABLE IS WITHIN A DISTANCE BELOW THE BEARING SURFACE EQUAL TO THE WIDTH OF THE FOUNDATION, THE ALLOWABLE BEARING PRESSURE SHALL BE 50% OF THAT DETERMINED IN TABLE 9.4.4.1

9.5.3. CEILING HEIGHTS
9.5.3.1. CEILING HEIGHTS OF ROOMS OR SPACES

- THE CEILING HEIGHTS OF ROOMS OR SPACES IN RESIDENTIAL OCCUPANCIES AND LIVE/WORK UNITS SHALL CONFORM TO TABLE 9.5.3.1.

9.5.3.2. MEZZANINES

- THE CEILING HEIGHT ABOVE AND BELOW A MEZZANINE FLOOR ASSEMBLY IN ALL OCCUPANCIES SHALL NOT BE LESS THAN 2100MM (6'-10")

9.5.3.3. STORAGE GARAGES

- THE CLEAR HEIGHT IN A STORAGE GARAGE SHALL NOT BE LESS THAN 2000MM (6'-6")

9.5.5. DINING ROOMS OR SPACES WITHIN DWELLING UNITS

9.5.5.1. AREA OF DINING ROOMS OR SPACES

- A DINING SPACE IN COMBINATION WITH OTHER SPACE SHALL HAVE AN AREA OF NOT LESS THAN 3.25M².
- DINING ROOMS NOT COMBINED WITH OTHER SPACE SHALL HAVE A MINIMUM AREA OF 7M².

9.5.6. KITCHENS WITHIN DWELLING UNITS
9.5.6.1. KITCHEN AREAS

- KITCHEN AREAS WITHIN DWELLING UNITS EITHER SEPARATE FROM, OR IN COMBINATION WITH OTHER SPACES, SHALL HAVE AN AREA OF NOT LESS THAN 4.2M² INCLUDING THE AREA OCCUPIED BY THE BASE CABINETS, EXCEPT IN DWELLING UNITS CONTAINING SLEEPING ACCOMMODATIONS FOR NOT MORE THAN TWO PERSONS, THE MINIMUM AREA SHALL BE 3.7M²

9.5.7. BEDROOMS OR SPACES IN DWELLING UNITS AND DORMITORIES
9.5.7.1. AREAS OF BEDROOMS

- EXCEPT AS PROVIDED IN ARTICLES 9.5.7.2. AND 9.5.7.3., BEDROOMS IN DWELLING UNITS SHALL HAVE AN AREA NOT LESS THAN 7M² WHERE BUILT-IN CABINETS ARE NOT PROVIDED, AND NOT LESS THAN 6M² WHERE BUILT-IN CABINETS ARE PROVIDED.

9.5.7.2. AREAS OF MASTER BEDROOMS

- EXCEPT AS PROVIDED IN ARTICLE 9.5.7.3., AT LEAST ONE BEDROOM IN EVERY DWELLING UNIT SHALL HAVE AN AREA OF NOT LESS THAN 9.8M² WHERE BUILT-IN CABINETS ARE NOT PROVIDED, AND NOT LESS THAN 8.8M² WHERE BUILT-IN CABINETS ARE PROVIDED.

9.5.7.3. AREAS OF COMBINATION BEDROOMS

- BEDROOM SPACES IN COMBINATION WITH OTHER SPACES IN DWELLING UNITS SHALL HAVE AN AREA NOT LESS THAN 4.2M².

9.5.9. BATHROOMS AND WATER CLOSET ROOMS
9.5.9.1. SPACE TO ACCOMMODATE FIXTURES

- IN EVERY DWELLING UNIT, AN ENCLOSED SPACE OF SUFFICIENT SIZE SHALL BE PROVIDED TO ACCOMMODATE A WATER CLOSET, LAVATORY, AND BATHTUB OR SHOWER STALL.

9.5.9.2. DOORS TO ROOMS CONTAINING WATER CLOSETS

- A DOOR SHALL BE PROVIDED TO EACH ROOM CONTAINING A WATER CLOSET WITHIN A DWELLING UNIT.

9.5.11. DOORWAY SIZES
9.5.11.1. DOORWAY OPENING SIZES

- EXCEPT AS PROVIDED IN ARTICLES 9.5.11.3., 9.9.6.2. AND 9.9.6.3., DOORWAY OPENINGS WITHIN DWELLING UNITS SHALL BE DESIGNED TO ACCOMMODATE AT LEAST THE DOOR SIZES IN TABLE 9.5.11.1.1. FOR SWING-TYPE DOORS OR FOLDING DOORS.

9.7. WINDOWS, DOORS, AND SKYLIGHTS

9.7.2. REQUIRED WINDOWS, DOORS, AND SKYLIGHTS
9.7.2.1. ENTRANCE DOORS

- A DOOR SHALL BE PROVIDED AT EACH ENTRANCE TO A DWELLING UNIT

- MAIN ENTRANCE DOORS TO DWELLING UNITS SHALL BE PROVIDED WITH:
 - A DOOR VIEWER OR TRANSPARENT GLAZING IN THE DOOR TO, OR
 - A SIDELIGHT.

9.7.2.2. OTHER REQUIREMENTS FOR WINDOWS, DOORS, AND SKYLIGHTS

- WINDOWS AND SKYLIGHTS INSTALLED TO PROVIDE REQUIRED NON-HEATING SEASON VENTILATION SHALL CONFORM TO ARTICLE 9.32.1.

- WINDOWS AND DOORS INSTALLED TO PROVIDE THE REQUIRED MEANS OF EGRESS FROM BEDROOMS SHALL CONFORM TO SUBSECTION 9.9.10.

- WINDOWS AND DOORS INSTALLED TO PROVIDE THE REQUIRED ACCESS TO A BUILDING FOR FIREFIGHTING PURPOSES SHALL CONFORM TO SUBSECTION 9.10.20.

- THE PROTECTION OF WINDOW AND DOOR OPENINGS AGAINST PERSONS FALLING THROUGH THE WINDOW OR DOOR OPENING SHALL CONFORM TO ARTICLE 9.8.B.1.

- MINIMUM SIZES OF DOORWAYS AND DOORS WITHIN BARRIER-FREE PATH OF TRAVEL SHALL CONFORM TO SECTION 9.5.

- THE LOCATION AND PROTECTION OF WINDOWS, DOORS, AND SKYLIGHTS IN ORDER TO CONTROL THE SPREAD OF FIRE SHALL CONFORM TO SUBSECTION 9.10.12.

- DOORS BETWEEN DWELLING UNITS AND ATTACHED GARAGES SHALL CONFORM TO ARTICLE 9.10.13.15.

- THE SURFACE FLAME-SPREAD RATING FOR DOORS AND SKYLIGHTS SHALL CONFORM TO ARTICLE 9.10.17.1.

- PROPERTIES OF WINDOWS AND DOORS WITHIN EXITS SHALL CONFORM TO SECTION 9.9.

9.7.2.3. MINIMUM WINDOW AREAS

- EXCEPT AS REQUIRED IN ARTICLE 9.9.10.1. AND SENTENCE (3), THE MINIMUM WINDOW GLASS AREA FOR ROOMS IN BUILDINGS OF RESIDENTIAL OCCUPANCY, OR ROOMS THAT ARE USED FOR SLEEPING, SHALL CONFORM TO TABLE 9.7.2.3.

9.8. STAIRS, RAMPS, HANDRAILS, AND GUARDS

9.8.2. STAIR DIMENSIONS
9.8.2.1. STAIR WIDTH

- EXCEPT AS PROVIDED IN SENTENCE (2), REQUIRED EXIT STAIRS AND PUBLIC STAIRS SERVING BUILDINGS OF RESIDENTIAL OCCUPANCY SHALL HAVE A WIDTH, MEASURED BETWEEN WALL FACES OR GUARDS, OF NOT LESS THAN 900MM (3'-0")

- AT LEAST ONE STAIR BETWEEN EACH FLOOR LEVEL WITHIN A DWELLING UNIT, AND EXTERIOR STAIRS AND REQUIRED EXIT STAIRS SERVING A SINGLE DWELLING UNIT, SHALL HAVE A WIDTH NOT LESS THAN 860MM (2'-10")

- REQUIRED EXIT STAIRS AND PUBLIC STAIRS SERVING BUILDINGS OF OTHER THAN RESIDENTIAL OCCUPANCY SHALL HAVE A WIDTH OF NOT LESS THAN THE GREATER OF,
 - 900MM (3'-0"), OR
 - 8MM (1/2") PER PERSON BASED ON THE OCCUPANT LOAD LIMITS SPECIFIED IN TABLE 3.1.17.1.

9.8.2.2. HEIGHT OVER STAIRS

- THE CLEAR HEIGHT OVER STAIRS SHALL BE:
 - MEASURED VERTICALLY, OVER THE CLEAR WIDTH OF THE STAIR, FROM A STRAIGHT LINE TANGENT TO THE TREAD AND LANDING NOSINGS TO THE LOWEST POINT ABOVE, AND
 - BE NOT LESS THAN:
 - 1950MM (6'-5") FOR STAIRS SERVING A SINGLE FAMILY DWELLING UNIT, AND
 - 2050MM (6'-8") FOR STAIRS NOT SERVING A SINGLE DWELLING UNIT.

9.8.3. STAIR CONFIGURATIONS
9.8.3.1. STRAIGHT AND CURVED RUNS IN STAIRS

- EXCEPT AS PROVIDED IN SENTENCE (2), STAIRS SHALL CONSIST OF,
 - STRAIGHT-RUNS, OR
 - CURVED-RUNS.

- STAIRS WITHIN DWELLING UNITS SHALL CONSIST OF,
 - STRAIGHT-RUNS,
 - CURVED-RUNS,
 - STRAIGHT-RUNS WITH WINDERS, OR
 - STRAIGHT-RUNS WITH CURVED RUNS.

9.8.3.3. MAXIMUM HEIGHT OF STAIRS

- THE VERTICAL HEIGHT BETWEEN ANY LANDINGS SHALL NOT EXCEED 3.7M (12'-1").

9.8.4. STEP DIMENSIONS
9.8.4.1. DIMENSIONS FOR RISERS

- THE RISE, WHICH IS MEASURED AS THE VERTICAL NOSING-TO-NOSING DISTANCE, SHALL CONFORM TO TABLE 9.8.4.1.

9.8.4.2. DIMENSIONS FOR RECTANGULAR RUNS AND TREADS

- THE RUN, WHICH IS MEASURED AS THE HORIZONTAL NOSING-TO-NOSING DISTANCE, AND THE TREAD DEPTH OF RECTANGULAR TREADS SHALL CONFORM TO TABLE 9.8.4.1.

9.8.4.3. DIMENSIONS FOR TRIANGULAR RUNS AND TREADS

- THE DEPTH OF A TRIANGULAR TREAD SHALL BE NOT LESS THAN ITS RUN AND NOT MORE THAN ITS RUN PLUS 25MM (1").

9.8.4.5. WINDERS

- STAIRS WITHIN DWELLING UNITS ARE PERMITTED TO CONTAIN WINDERS THAT CONVERGE TO A CENTRE POINT PROVIDED,
 - THE WINDERS TURN THROUGH AN ANGLE OF NOT MORE THAN 90°,
 - INDIVIDUAL TREADS TURN THROUGH AN ANGLE OF NOT LESS THAN 30° OR NOT MORE THAN 45°, AND
 - ADJACENT WINDERS TURN THROUGH THE SAME ANGLE

- WHERE MORE THAN ONE SET OF WINDERS DESCRIBED IN SENTENCE (1) IS PROVIDED IN A SINGLE STAIRWAY BETWEEN ADJACENT FLOOR LEVELS, SUCH WINDERS SHALL BE SEPARATED IN PLAN BY AT LEAST 1200MM (4'-0")

9.8.5. RAMPS
9.8.5.2. RAMP WIDTH

- EXCEPT AS PROVIDED IN SENTENCE (2), EXIT RAMPS AND PUBLIC RAMPS SERVING BUILDINGS OF RESIDENTIAL OCCUPANCY SHALL HAVE A CLEAR WIDTH OF NOT LESS THAN 900MM (3'-0").

- A RAMP SERVING A SINGLE FAMILY DWELLING UNIT SHALL HAVE A WIDTH OF NOT LESS THAN 860MM (2'-10").

- EXIT RAMPS AND PUBLIC RAMPS SERVING BUILDINGS OF OTHER THAN RESIDENTIAL OCCUPANCY SHALL HAVE A CLEAR WIDTH OF NOT LESS THAN THE GREATER OF,
 - 900MM (3'-0"), OR
 - 8MM (1/2") PER PERSON BASED ON THE OCCUPANT LOAD LIMITS SPECIFIED IN TABLE 3.1.17.1.

9.8.5.3. HEIGHT OVER RAMPS

- THE CLEAR HEIGHT OVER RAMPS SHALL BE NOT MORE THAN,
 - 1950MM (6'-5") FOR RAMPS SERVING A SINGLE DWELLING UNIT, AND
 - 2050MM (6'-8") FOR RAMPS NOT SERVING A SINGLE DWELLING UNIT

9.8.5.4. SLOPE

- THE SLOPE OF RAMPS SHALL BE NOT MORE THAN,
 - 1 IN 10 FOR EXTERIOR RAMPS,
 - 1 IN 10 FOR INTERIOR RAMPS SERVING RESIDENTIAL OCCUPANCIES,
 - 1 IN 6 FOR MERCANTILE OR INDUSTRIAL OCCUPANCIES, AND
 - 1 IN 8 FOR ALL OTHER OCCUPANCIES

9.8.5.5. MAXIMUM RISE

- WHERE THE SLOPE OF THE RAMP IS GREATER THAN 1 IN 12, THE MAXIMUM RISE BETWEEN FLOORS OR LANDINGS SHALL BE 1500MM (4'-11")

9.8.6. LANDINGS
9.8.6.2. REQUIRED LANDINGS

- EXCEPT AS PROVIDED IN SENTENCES (2) TO (4) AND SENTENCES 9.9.6.6.(2), A LANDING SHALL BE PROVIDED,
 - AT THE TOP AND BOTTOM OF EACH FLIGHT OF INTERIOR AND EXTERIOR STAIRS, INCLUDING STAIRS IN GARAGES,
 - AT THE TOP AND BOTTOM OF EVERY RAMP WITH A SLOPE GREATER THAN 1 IN 50, AND
 - WHERE A DOORWAY OPENS ONTO A STAIR OR RAMP.

- WHERE A DOOR AT THE TOP OF A STAIR IN A DWELLING UNIT SWINGS AWAY FROM THE STAIR, NO LANDING IS REQUIRED BETWEEN THE DOORWAY AND THE STAIR.

- A LANDING MAY BE OMITTED AT THE TOP OF AN EXTERIOR STAIR SERVING A GARAGE OR A SECONDARY ENTRANCE TO A SINGLE DWELLING UNIT, INCLUDING AN ENTRANCE FROM AN ATTACHED GARAGE, PROVIDED,
 - THE STAIR DOES NOT CONTAIN MORE THAN THREE RISERS,

- EXCEPT AS PROVIDED IN CLAUSE (C), THE DOOR IS A SLIDING DOOR OR SWINGS AWAY FROM THE STAIR, AND
- WHERE A STORM OR SCREEN DOOR IS PROVIDED, IT MAY SWING OVER THE STAIR IF IT IS EQUIPPED WITH HARDWARE TO HOLD IT OPEN.

- A LANDING MAY BE OMITTED AT THE BOTTOM OF AN EXTERIOR STAIR OR RAMP PROVIDED THERE IS NO OBSTRUCTION, SUCH AS A GATE OR DOOR, WITHIN THE LESSER OF THE WIDTH OF THE STAIR OR RAMP, OR
 - 900MM (3'-0") FOR STAIRS OR RAMPS SERVING A SINGLE DWELLING UNIT, AND
 - 1100MM (3'-7") FOR STAIRS OR RAMPS NOT SERVING A SINGLE DWELLING UNIT.

9.8.6.3. DIMENSIONS OF LANDINGS

- EXCEPT AS PROVIDED IN SENTENCES (3) TO (5), THE WIDTH AND LENGTH OF LANDINGS SHALL COMPLY WITH TABLE 9.8.6.3. (SEE APPENDIX A)

(2) RESERVED

- WHERE THE STAIRS OR RAMPS OF DIFFERENT WIDTHS ADJOIN A SINGLE LANDING, THE MINIMUM WIDTH OF THE LANDING SHALL BE,
 - NOT LESS THAN THE GREATER REQUIRED STAIR OR RAMP WIDTH, WHERE ONE OR MORE OF THE STAIR OR RAMP WIDTHS DO NOT EXCEED THEIR RESPECTIVE REQUIRED WIDTH, OR
 - NOT LESS THAN THE LESSER ACTUAL STAIR OR RAMP WIDTH, WHERE ALL OF THE WIDTHS OF THE STAIRS OR RAMPS EXCEED THEIR RESPECTIVE REQUIRED WIDTHS.

- WHERE A DOOR SWINGS TOWARD A STAIR, THE FULL ARC OF THE SWING SHALL BE OVER THE LANDING

- THE SLOPE OF LANDINGS SHALL NOT EXCEED 1 IN 5.

- WHERE A DOORWAY OR STAIRWAY OPENS ONTO THE SIDE OF A RAMP, THE LANDING SHALL EXTEND FOR A DISTANCE OF NOT LESS THAN 300MM (1'-0") ON EITHER SIDE OF THE DOORWAY OR STAIRWAY, EXCEPT ON A SIDE ABUTTING AN END WALL.

9.8.7. HANDRAILS
9.8.7.1. REQUIRED HANDRAILS

- EXCEPT AS PROVIDED IN SENTENCE (2) TO (4), A HANDRAIL SHALL BE INSTALLED ON STAIRS AND RAMPS IN CONFORMANCE WITH TABLE 9.8.7.1.

- WHERE A STAIR OR RAMP IS REQUIRED TO BE AT LEAST 2200MM (7'-3") WIDE DUE TO THE OCCUPANT LOAD, A HANDRAIL SHALL BE INSTALLED SUCH THAT NO POSITION ON THE STAIR OR RAMP IS MORE THAN 825MM (2'-9") FROM A HANDRAIL.

- A HANDRAIL IS NOT REQUIRED FOR STAIRS AND RAMPS SERVING A SINGLE DWELLING UNIT, WHERE,
 - INTERIOR STAIRS HAVE NOT MORE THAN TWO RISERS,
 - EXTERIOR STAIRS HAVE NOT MORE THAN THREE RISERS, OR
 - RAMPS RISE NOT MORE THAN 400MM.

- ONLY ONE HANDRAIL IS REQUIRED ON EXTERIOR STAIRS HAVING MORE THAN THREE RISERS, PROVIDED SUCH STAIRS SERVE A SINGLE DWELLING UNIT.

9.8.7.4. HEIGHT OF HANDRAILS (SEE APPENDIX A)

- THE HEIGHT OF HANDRAILS ON STAIRS AND RAMPS SHALL BE MEASURED VERTICALLY FROM THE TOP OF THE HANDRAIL TO,
 - A STRAIGHT LINE DRAWN TANGENT TO THE TREAD NOSINGS OF THE STAIR SERVED BY THE HANDRAIL, OR
 - THE SURFACE OF THE RAMP, FLOOR OR LANDING SERVED BY THE HANDRAIL

- EXCEPT AS PROVIDED IN SENTENCES (3) AND (4), THE HEIGHT OF HANDRAILS ON STAIRS AND RAMPS SHALL BE,
 - NOT LESS THAN 865MM (2'-10"), AND
 - NOT MORE THAN 965MM (3'-2").

- WHERE GUARDS ARE REQUIRED, HANDRAILS REQUIRED ON LANDINGS SHALL BE NOT MORE THAN 1070MM (3'-6") IN HEIGHT.

- HANDRAILS INSTALLED IN ADDITION TO REQUIRED HANDRAILS NEED NOT COMPLY WITH SENTENCE (2).

9.8.8. GUARDS
9.8.8.2. LOADS ON GUARDS

- EXCEPT AS PROVIDED IN SENTENCE (5), GUARDS SHALL BE DESIGNED TO RESIST THE LOADS SPECIFIED IN TABLE 9.8.8.2

- GUARDS CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS IN MMAH SUPPLEMENTARY STANDARD SB-7, "GUARDS FOR HOUSING AND SMALL BUILDINGS" SHALL BE DEEMED TO SATISFY THE REQUIREMENTS OF SENTENCE (1).

9.8.8.3. HEIGHT OF GUARDS (SEE APPENDIX A)

- EXCEPT AS PROVIDED IN SENTENCE (2) TO (4), ALL GUARDS SHALL BE NOT LESS THEN 1070MM (3'-6") HIGH.

- ALL GUARDS WITHIN A DWELLING SHALL BE NOT LESS THEN 900MM (3'-0")

- OUTER GUARDS SERVING NOT MORE THEN ONE UNIT SHALL BE 900MM (3'-0") WHERE WALKING SURFACE SERVED BY THE GUARD IS NO MORE THAN 1800MM (5'-11") ABOVE THE FINISHED GROUND LEVEL.

- GUARDS FOR FLIGHTS OF STEPS, EXCEPT IN REQUIRED EXIT STAIRS, SHALL BE NOT LESS THAN 900MM (3'-0") HIGH.

- EXCEPT AS PROVIDED IN SENTENCE (6), THE HEIGHT OF GUARDS SHALL NOT BE LESS THAN,
 - 920MM (3'-1") FOR REQUIRED EXIT STAIRS, AND
 - 1070MM (3'-6") AROUND LANDINGS.

- THE HEIGHT OF GUARDS FOR EXTERIOR STAIRS AND LANDINGS MORE THAN 10M ABOVE ADJACENT GROUND LEVEL SHALL BE NOT LESS THAN 1500MM (5'-0")

- THE HEIGHT OF GUARDS FOR STAIRS AND LANDINGS SHALL BE MEASURED VERTICALLY FROM THE TOP OF THE GUARD TO,
 - A STRAIGHT LINE DRAWN TANGENT TO THE TREAD NOSINGS OF THE STAIR, OR
 - THE SURFACE OF THE LANDING.

9.10.19 SMOKE ALARMS
9.10.19.1 REQUIRED SMOKE ALARMS

- SMOKE ALARMS CONFORMING TO CAN/ULC-5531, "SMOKE ALARMS", SHALL BE INSTALLED IN EACH DWELLING UNIT AND IN EACH SLEEPING ROOM NOT WITHIN A DWELLING UNIT

9.10.19.2 LOCATION OF SMOKE ALARMS

- WITHIN DWELLING UNITS, SUFFICIENT SMOKE ALARMS SHALL BE INSTALLED SO THAT,
 - THERE IS AT LEAST ONE SMOKE ALARM INSTALLED ON EACH STORRY, INCLUDING BASEMENTS,
 - ON ANY STORRY OF A DWELLING UNIT CONTAINING SLEEPING ROOMS, A SMOKE ALARM IS INSTALLED,
 - IN EACH SLEEPING ROOM, AND
 - IN A LOCATION BETWEEN SLEEPING ROOMS AND THE REMAINDER OF THE STORRY, AND IF THE SLEEPING ROOMS ARE SERVED BY A HALLWAY, THE SMOKE ALARM SHALL BE LOCATED IN THE HALLWAY. (SEE APPENDIX A)

9.10.19.5. INTERCONNECTION OF SMOKE ALARMS

- WHERE MORE THAN ONE SMOKE ALARM IS REQUIRED IN A DWELLING UNIT, THE SMOKE ALARMS SHALL BE WIRED SO THAT THE ACTIVATION OF ONE ALARM WILL CAUSE ALL ALARMS WITHIN THE DWELLING UNIT TO SOUND.

9.12. EXCAVATION

9.12.1. GENERAL
9.12.1.1. REMOVAL OF TOPSOIL AND ORGANIC MATTER

- THE TOPSOIL AND VEGETABLE MATTER IN ALL UNEXCAVATED AREAS UNDER A BUILDING SHALL BE REMOVED.

- IN LOCALITIES WHERE TERMITE INFESTATION IS KNOWN TO BE A PROBLEM, ALL STUMPS, ROOTS, AND OTHER WOOD DEBRIS SHALL BE REMOVED FROM THE SOIL TO A DEPTH OF NOT LESS THAN 300MM IN UNEXCAVATED AREAS UNDER A BUILDING.

- THE BOTTOM OF EVERY EXCAVATION SHALL BE FREE OF ALL ORGANIC MATERIAL

9.12.1.2. STANDING WATER

- EXCAVATIONS SHALL BE KEPT FREE OF STANDING WATER.

9.12.1.3. PROTECTION FROM FREEZING

- THE BOTTOM OF EXCAVATIONS SHALL BE KEPT FROM FREEZING THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD.

9.12.2. DEPTH
9.12.2.1. EXCAVATION TO UNDISTURBED SOIL

- EXCAVATIONS FOR FOUNDATIONS SHALL EXTEND TO UNDISTURBED SOIL

9.12.2.2. MINIMUM DEPTH OF FOUNDATIONS

- EXCEPT AS PROVIDED IN SENTENCE (4) AND (5), THE MINIMUM DEPTH OF FOUNDATIONS BELOW FINISHED GROUND LEVEL SHALL CONFORM TO TABLE 9.12.2.2.

9.13.2. DAMPPROOFING
9.13.2.1. DAMPPROOFING

- EXCEPT AS PROVIDED IN ARTICLE 9.13.3.1., WHERE THE EXTERIOR FINISHED GROUND LEVEL IS AT A HIGHER ELEVATION THAN THE GROUND LEVEL INSIDE THE FOUNDATION WALLS, EXTERIOR SURFACES OF FOUNDATION WALLS BELOW GROUND LEVEL SHALL BE DAMP PROOFED.

- EXCEPT AS PROVIDED IN SENTENCE (3) AND ARTICLE 9.13.3.1., FLOORS-ON-GROUND SHALL BE DAMP PROOFED.

- FLOORS IN GARAGES, FLOORS IN UNDESIGNED PORTIONS OF BUILDINGS, AND FLOORS INSTALLED OVER GRANULAR FILL IN CONFORMANCE WITH ARTICLE 9.16.2.1, NEED NOT BE DAMP PROOFED.

- DAMPPROOFING IN SENTENCE (1) IS NOT REQUIRED WHERE THE EXTERIOR SURFACES OF FOUNDATION WALLS BELOW GROUND LEVEL ARE WATERPROOFED.

9.13.3. WATERPROOFING
9.13.3.1. REQUIRED WATERPROOFING

- WHERE HYDROSTATIC PRESSURE OCCURS, WATERPROOFING IS REQUIRED FOR EXTERIOR SURFACES OF,
 - FLOORS-ON-GROUND, AND
 - BELOW GROUND WALLS, WHERE THE EXTERIOR FINISHED GROUND LEVEL IS AT A HIGHER ELEVATION THAN THE GROUND LEVEL INSIDE THE FOUNDATION WALLS

- ROOFS OF UNDERGROUND STRUCTURES SHALL BE WATERPROOFED TO PREVENT THE ENTRY OF WATER INTO THE STRUCTURE.

9.20.9.5. TIES FOR MASONRY VENEER

- MASONRY VENEER 70MM (2 3/4") OR MORE IN THICKNESS AND RESTING ON A BEARING SUPPORT SHALL BE TIED TO