

Sweetlife Flora Commercial w/ Residential

651 Mountain Rd., Moncton NB

Issued for Permit

August 8th, 2025

CODE REVIEW SUMMARY

National Building Code of Canada – NBC 2020

Building: Part 3 – Fire Protection, Occupant Safety and Accessibility

Fire Protection: Sections 3.2.2 (Building Classification), 3.1.3 (Multiple Occupancies)

PROJECT DESCRIPTION Renovation of an existing 3-storey building (including basement). The basement and main floor are occupied by a cafe and flower shop under one tenant (Group A, Division 2 – Assembly Occupancy). The second floor contains one dwelling unit (Group C – Residential Occupancy).

3.2.2.1 Occupancy Classification:

Group A, Division 2: Cafe/Flower Shop – Main Floor and Basement (NBC 3.2.2.25)

Group C: Residential Unit – Second Floor (NBC 3.2.2.54)

3.1.3.1 Mixed Occupancy:

Where different major occupancies occur in the same building, the entire building shall comply with the most restrictive requirements of the major occupancies, unless fire separations and fire compartments are provided in accordance with Subsection 3.1.3.

3.2.2.25 Group A, Division 2 up to 2 storeys:

Max. Building Height: 2 Storeys

Max. Building Area (Facing 1 Street): 800 m²

Construction: Combustible permitted

Fire Resistance:

Floor Assembly: 45 min

Loadbearing Walls: 45 min

3.2.2.54 Group C up to 3 storeys:

Max. Building Height: 3 Storeys

Max. Building Area (Facing 1 Street): 1,800 m²

Construction: Combustible permitted

Fire Resistance:

Floor Assembly: 45 min

Loadbearing Walls: Min. rating required for supported assembly

3.1.3.4 Residential and Assembly Occupancy Separation

The required fire separation between the Group C residential unit and Group A mercantile/assembly occupancy shall be a minimum 1-hour fire-resistance rating.

Note:

Due to the fire separation requirement in Article 3.1.3.4 of the NBC, the loadbearing walls and floor assemblies supporting the separation between the Group C residential occupancy and the Group A, Division 2 assembly occupancy shall have a minimum 1-hour fire-resistance rating.

Although the base requirements in Articles 3.2.2.25 and 3.2.2.54 allow 45 minutes for floor assemblies and loadbearing walls, the more restrictive requirement applies in this mixed-occupancy condition.

3.6.2.1 Separation of Service Rooms:

Service rooms require a 1-hour fire-resistance rating.

3.7.2 Plumbing and Washroom Facilities

Washroom Facilities:

One universal washroom and one additional gender-neutral washroom are provided. As per Table 3.7.2.2.-A, a minimum of one water closet per 25 occupants is required in assembly occupancies. With two publicly accessible, gender-neutral washrooms provided, the maximum permitted occupant load is 50 persons.

INSPECTOR COMMENTS ADDRESSED:

- Provide limiting distance calculations for the 2 fire compartments and provide wall assembly requirements per Subsection 3.2.3 for the right-side building face that has a limiting distance of 1.2m.
 - See Drawing 3, Sheet A200, % Opening = 2.9%, Code requires 7% on 1.2m Limiting Distance. Window sizes are changed to comply.
- There is only one exit from the basement located at the rear stairs. The interior stairs to the main level exit into the café floor area and do not conform to Section 3.4. This may be acceptable provided you can meet area and travel distance requirements in Table 3.4.2.1-A. The basement is considered as an E occupancy subsidiary to the main E occupancy on the main level.
 - See Sheet A100, Travel distances= 12.0m, code requires 15m. Additional Fire-rated Wall and Exit door added to comply.
- Door 205 at the top of the interior stairs from the basement shall be a 45-minute rated door, frame and hardware to maintain the fire separation between the main floor and the basement.
 - See Sheet A101, Door 205 to have 45 min. Fire-rating.
- Door 305 between the top of exit stairs and the apartment must be a 45-minute fire rated door, frame and hardware.
 - See Sheet A102, Door 305 to have 45 min. Fire-rating.
- The rear exit stair enclosure shown on A101 requires that the adjoining walls at the closet and storage room be fire separations. The ceiling above this area must also be a fire separation.
 - See Sheet A101, Fire-rated walls extended to enclose stair below. Fire-rated Ceiling noted.
- Egress from the main floor is through the front door 201 and through door 209 into the shared rear exit.
 - Door 209 does not swing in the direction of exit travel.
 - See Sheet A101, Door 209 relocated to comply.
- There is only one exit from the second level residential unit through the shared interior exit stairs. Spiral stairs are not permitted as exit stairs as per sentence 9.8.4.7.(3). In this configuration the residential unit still requires an additional exit. See sentence 3.3.4.4.(3).
 - Omitting the spiral stairs and using rectangular tread stairs from the balcony would provide two exits and correct this. However, Sentence 3.2.2.12.(1) will apply and the exterior deck and supporting members will require a 45-minute fire resistance rating.
 - See Sheet A101 and A102 and Drawing 12 and 13 on Sheet A302. Spiral Stair changed to Rectangular to comply. Note for 45-minute fire-resistance on deck members noted on Sheet A101 and A102
 - Making the interior exit stairs solely for the apartment and removing door 209 would also correct this, however you would need to add another exit door somewhere on the main floor area so that the main level had 2 exits.
 - Opted for the rectangular exterior stair on (a) to comply.
- The rear exit has issues with Sentences 3.2.3.13(1) and (2) because of the location of window 206. Window 206 will need to be removed or protected as per 3.2.3.13.(4).
 - See Sheet A101, Window 206 deleted to comply.
- If the rear spiral stairs are changed to rear exit stairs there will most likely be a similar issue with window 101.
- Plan B300 appears to show duct work through the exit stair enclosure. This is not permitted as per Sentence 3.4.4.4.(1).
 - Duct works moved. Refer to MEP Drawing.
- The Interior exit stairs enclosure is shown on the second floor as including the storage closet and door 303. This doesn't work as the closet door would need to be rated and have a self-closing device. Additionally plan C/300 shows the HRV in this closet and would be in nonconformance with 4.4.4.4.(1)
 - HRV moved. Refer to MEP Drawing.
- The front entrance stairs require handrails as per article Sentences 3.4.6.5.(2)&(3)
 - See Drawing 10 and 11, Sheet A302. Handrails updated to comply.
- Provide a form 37 for Joma Engineering for the barrier free ramp
 - JOMA Form 37E attached
- Door 201 requires a power operator as per per NB Regulation 2021-3.
 - See Sheet A101, Door 201 to be power-operated. Door specifications to be provided by Contractor/Owner.
- The barrier free ramp does not appear to have handrails conforming to Article 3.4.6.5. as per NB Regulation 2021-3
 - See Drawing 10 and 11, Sheet A302. Handrails updated to comply.
- The barrier free ramp does not appear to have a raised curb or raised barrier as per 3.8.3.5(5) a or b as per NB Regulation 2021-3
 - See Drawing 10 and 11. Raised curb added to comply.

GENERAL REQUIREMENTS

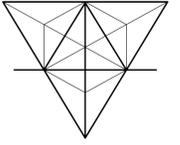
- THE CONTRACTOR SHALL STRICTLY CONFORM WITH ALL CODES HAVING JURISDICTION IN THE CONSTRUCTION OF THIS PROJECT, INCLUDING, BUT NOT LIMITED TO: FEDERAL, LOCAL, CITY, COUNTY, BUILDING, ZONING, ELECTRICAL, MECHANICAL, FIRE, LIFE SAFETY, AND HANDICAP CODES. ALL WORK MUST BE PERFORMED BY LICENSED AND INSURED CONTRACTORS AND SUBCONTRACTORS. INSURANCE CERTIFICATES, IN WRITING, WILL BE PRESENTED TO 46NORTH DESIGN STUDIO PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL DIMENSIONS, EXISTING CONDITIONS, AND CODE COMPLIANCE. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS. IF THE CONTRACTOR FINDS ANY DISCREPANCIES IN THE DRAWINGS OR SPECIFICATIONS, HE MUST CONTACT 46NORTH DESIGN STUDIO FOR VERIFICATIONS. 46NORTH DESIGN STUDIO SHALL BE NOTIFIED IN WRITING OF ANY NON-COMPLIANCES IN THE SITE PLANS OR SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BRINGING ANY ERRORS AND OMISSIONS TO THE ATTENTION OF 46NORTH DESIGN STUDIO IN WRITING AND SHALL AWAIT WRITTEN INSTRUCTIONS BEFORE PROCEEDING. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IF THEY FAIL TO NOTIFY 46NORTH DESIGN STUDIO PRIOR TO THE CONSTRUCTION AND OR FABRICATION OF WORK. SCOPE: THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND LABOR TO COMPLETE THE WORK AS DESCRIBED ON THE DRAWINGS AND SPECIFICATIONS. CONTRACTOR'S SHALL BE RESPONSIBLE FOR ALL PERMITS, COMPLIANCE STATEMENTS, CERTIFICATE OF OCCUPANCY OR OTHER DOCUMENTATION REQUIRED.
- WORK SHALL BE PERFORMED TO THE HIGHEST LEVEL OF STANDARDS OF EACH RESPECTIVE TRADE.
- DEMOLISH AS REQUIRED AND REMOVE ALL DEBRIS FROM THE SITE.
- THE CONTRACTOR SHALL KEEP THE PREMISES CLEAN AND IN A WORKMANLIKE FASHION. THE PROJECT SHALL BE READY FOR OCCUPANCY UPON THE COMPLETION OF WORK IN A "TURN-KEY" CONDITION.
- CONSTRUCTION SHALL BE BY DIMENSIONS DO NOT SCALE OFF OF THESE DRAWINGS.
- SHOP DRAWINGS MAY BE REQUIRED BY 46NORTH DESIGN STUDIO FOR ALL STRUCTURAL, MECHANICAL, ELECTRICAL, LIFE SAFETY SYSTEMS, AND SPECIALIZED CONSTRUCTION FROM THE CONTRACTOR AND/OR ALL SUBCONTRACTORS AT NO ADDITIONAL COST. SHOP DRAWINGS SHALL BE SUBMITTED TO 46NORTH DESIGN STUDIO FOR REVIEW AND CONFORMANCE WITH THE SYSTEMS AND THEIR INTEGRATION WITH EXISTING SYSTEMS AND CONDITIONS. WORK DONE TO LIFE SAFETY SYSTEMS MAY REQUIRE SEPARATE PERMITS. THESE SHALL BE INCLUDED IN THE BASE BID.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE STRUCTURAL INTEGRITY OF THE BUILDING AT ALL TIMES.
- THE CONTRACTOR SHALL NOTIFY 46NORTH DESIGN STUDIO IMMEDIATELY UPON THE DISCOVERY OF ANY ENVIRONMENTALLY HAZARDOUS MATERIALS AND OR CONDITIONS.
- THESE PLANS HAVE BEEN PRODUCED TO NATIONAL BUILDING CODE ENERGY STANDARDS. ANY ADDITIONAL STRETCH CODE COMPLIANCE SHALL BE THE RESPONSIBILITY OF THE OWNER/CONTRACTOR.



Sheet List	
Sheet Number	Sheet Name
0000	Cover Page
L100	Site Plan
R100	Existing Floor Plans and Elevations
A100	Basement
A101	Main Floor Plan
A102	Second Floor Plan
A103	Roof Plan
A200	Front & Left Side Elevations
A201	Rear & Right Side Elevations
A300	Building Sections and Details
A301	Stair Details and Assemblies
I100	Interior Elevations

Area Schedule	
Level	Area
Basement	1572 SF
Main Floor	1748 SF
Second Floor	1748 SF
	5068 SF

G A I A
architecture



46 NORTH

Sweetlife Flora Commercial w/ Residential

PROJECT ADDRESS

651 Mountain Rd., Moncton NB

PROJECT TEAM

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Cover Page

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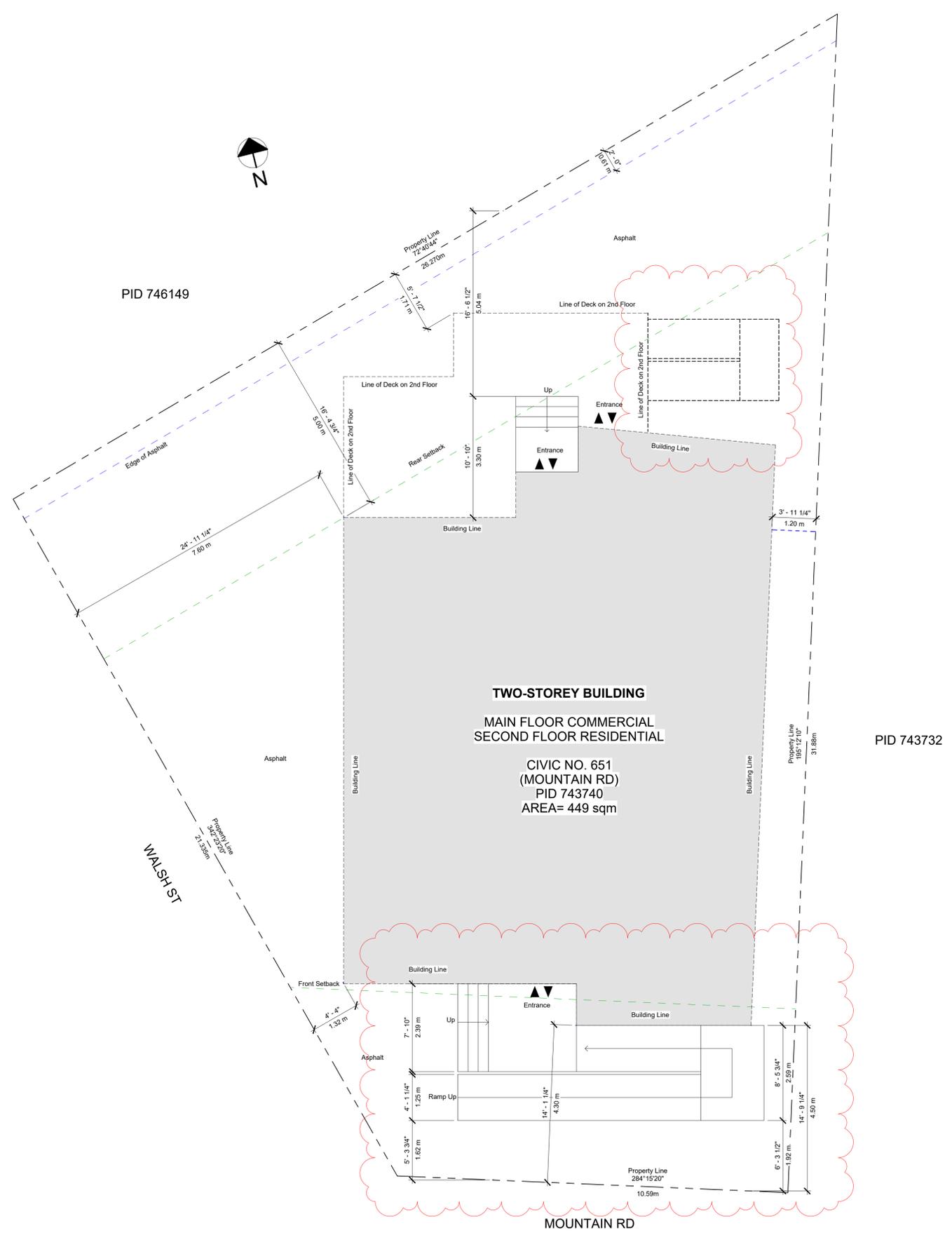
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Site Plan

L100

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① Site Plan
3/16" = 1'-0"

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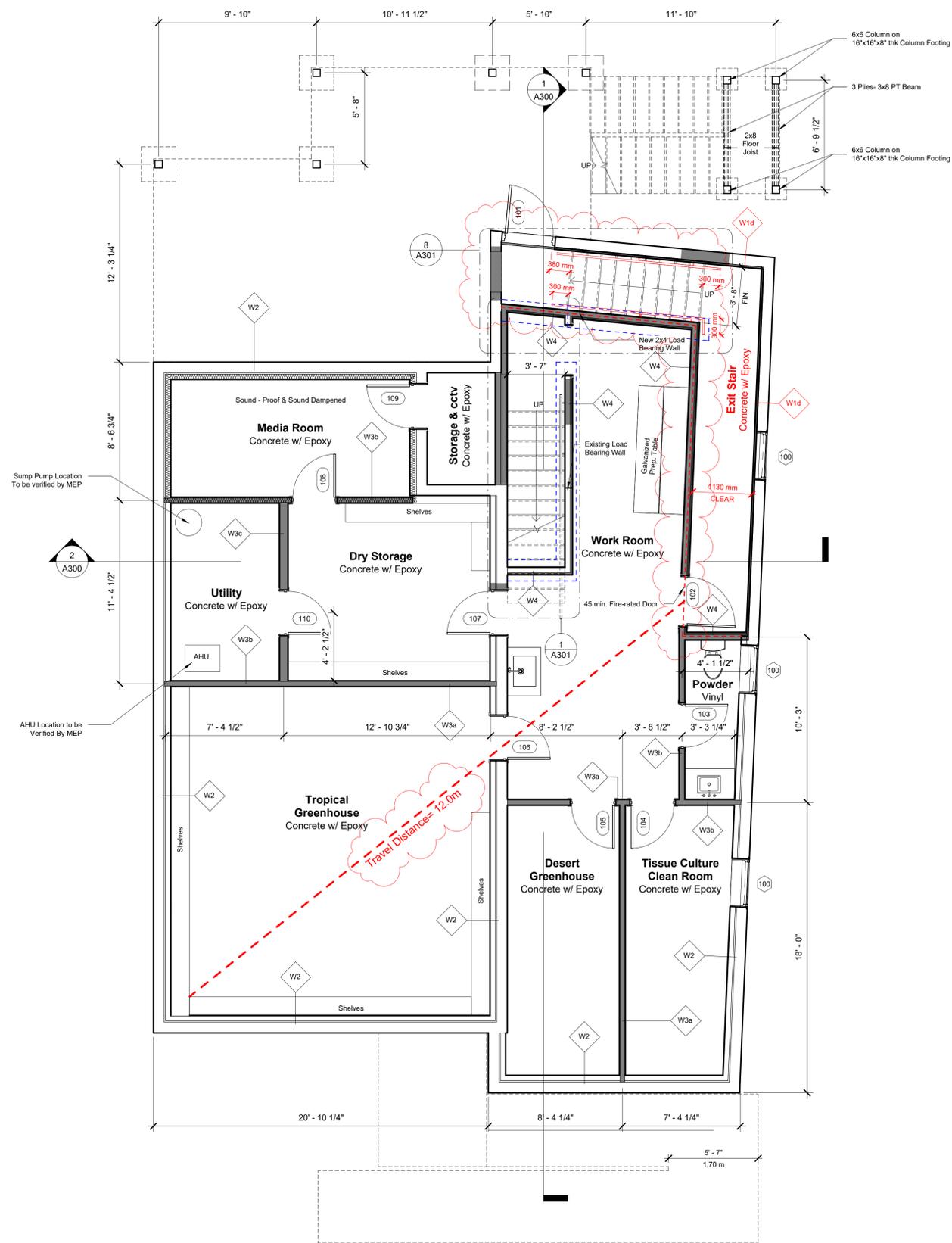
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Basement

A100

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Window Schedule					
Mark	Count	Width	Height	Head Height	Comments
100	3	3' - 0"	1' - 6"	7' - 6"	Replace with new
101	2	6' - 2"	6' - 10"	7' - 2"	
102	1	3' - 0"	6' - 10"	7' - 2"	Replace with new
103	2	5' - 8"	6' - 10"	7' - 2"	Replace with new
104	4	6' - 0"	3' - 6"	6' - 8"	
105	7	2' - 0"	2' - 8"	6' - 8"	
106	3	5' - 0"	5' - 0"	6' - 8"	
107	1	2' - 0"	5' - 0"	8' - 0"	

Door Schedule			
Mark	Width	Height	Comments
Basement			
102	3' - 0"	6' - 8"	
103	2' - 8"	6' - 8"	
104	2' - 8"	6' - 8"	
105	2' - 8"	6' - 8"	
106	2' - 8"	6' - 8"	
107	2' - 8"	6' - 8"	
108	2' - 8"	6' - 8"	
109	2' - 8"	6' - 8"	
110	2' - 8"	6' - 8"	
Main Floor			
101	3' - 0"	6' - 8"	

Table 3.4.2.1-A
Criteria for One Exit (Floor Area Not Sprinklered Throughout)
Forming Part of Sentence 3.4.2.1.(2)

Occupancy of Floor Area	Maximum Floor Area, m2	Maximum Travel Distance, m
Group E	150	15m

Building Occupancy: Group E
Basement Area: 145.8 sqm
Travel Distance: 14.75m

1 Basement Plan
1/4" = 1'-0"

Legend

- Existing
- New Construction
- Demolished

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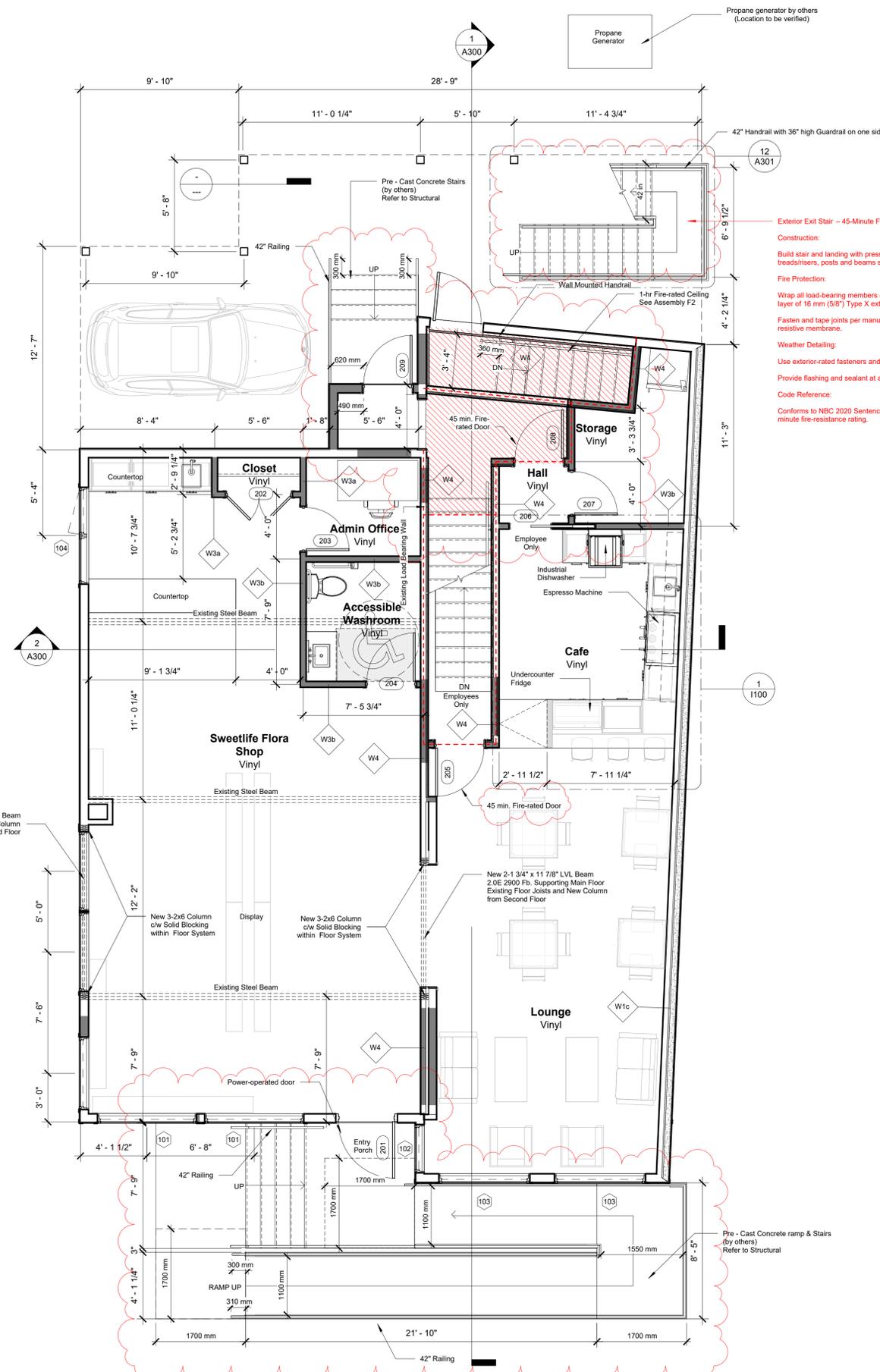
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Main Floor Plan

A101

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Exterior Exit Stair – 45-Minute Fire-Resistance Rating (Economic Option)
Construction:
Build stair and landing with pressure-treated dimensional lumber (minimum 2x12 stringers, 2x10 treads/risers, posts and beams sized per structural design).
Fire Protection:
Wrap all load-bearing members (stringers, treads, undersides, landings, beams, and posts) with one layer of 16 mm (5/8") Type X exterior-grade gypsum board or fibre-cement board.
Fasten and tape joints per manufacturer's instructions to maintain a continuous 45-minute fire-resistive membrane.
Weather Detailing:
Use exterior-rated fasteners and corrosion-resistant hardware.
Provide flashing and sealant at all exposed edges to prevent water infiltration and maintain rating.
Code Reference:
Conforms to NBC 2020 Sentence 3.2.2.12.(1) and tested to CANULC-S101 for a minimum 45-minute fire-resistance rating.

SPECIFIES A 1-HOUR FIRE SEPARATION REQUIREMENT BETWEEN DIFFERENT OCCUPANCIES.

Window Schedule					
Mark	Count	Width	Height	Head Height	Comments
100	3	3' - 0"	1' - 6"	7' - 6"	Replace with new
101	2	6' - 2"	6' - 10"	7' - 2"	
102	1	3' - 0"	6' - 10"	7' - 2"	Replace with new
103	2	5' - 8"	6' - 10"	7' - 2"	Replace with new
104	4	6' - 0"	3' - 6"	6' - 8"	
105	7	2' - 0"	2' - 8"	6' - 8"	
106	3	5' - 0"	5' - 0"	6' - 8"	
107	1	2' - 0"	5' - 0"	8' - 0"	

Door Schedule			
Mark	Width	Height	Comments
Main Floor			
101	3' - 0"	6' - 8"	
201	3' - 6"	6' - 10"	
202	4' - 0"	6' - 8"	Double Door
203	2' - 8"	6' - 8"	
204	3' - 0"	6' - 8"	
205	3' - 0"	6' - 8"	
206	2' - 8"	6' - 8"	Pocket Door
207	2' - 8"	6' - 8"	
208	3' - 0"	6' - 8"	Fire Rated
209	3' - 0"	6' - 8"	
xx	3' - 0"	6' - 8"	

1 Main Floor
1/4" = 1'-0"

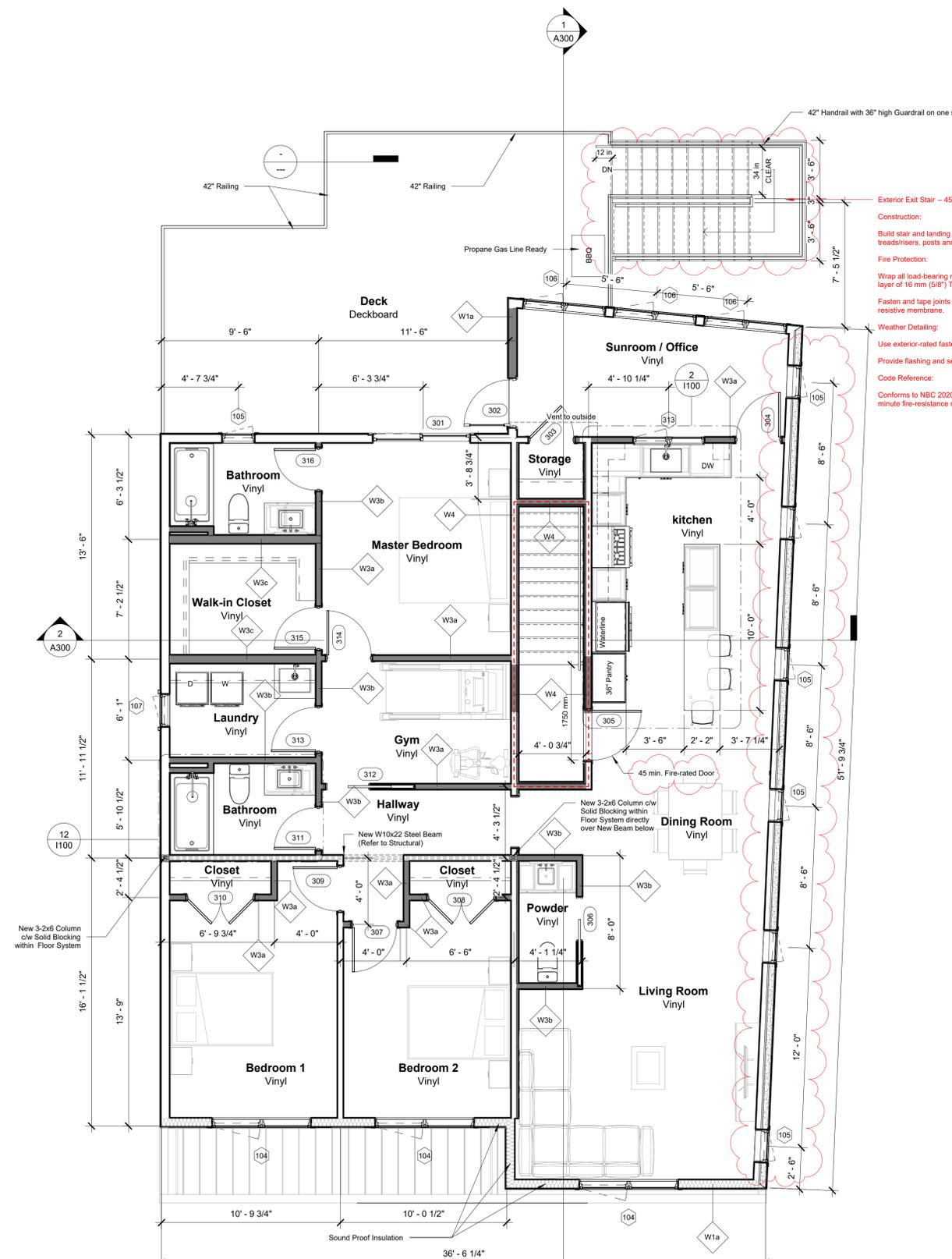
Legend

- Existing
- New Construction
- Demolished

**Sweetlife Flora
Commercial w/
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PROJECT ADDRESS
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PROJECT TEAM



Exterior Exit Stair - 45-Minute Fire-Resistance Rating (Economic Option)
Construction:
 Build stair and landing with pressure-treated dimensional lumber (minimum 2x12 stringers, 2x10 treads/risers, posts and beams sized per structural design).
Fire Protection:
 Wrap all load-bearing members (stringers, treads, undersides, landings, beams, and posts) with one layer of 16 mm (5/8") Type X exterior-grade gypsum board or fibre-cement board.
 Fasten and tape joints per manufacturer's instructions to maintain a continuous 45-minute fire-resistive membrane.
Weather Detailing:
 Use exterior-rated fasteners and corrosion-resistant hardware.
 Provide flashing and sealant at all exposed edges to prevent water infiltration and maintain rating.
Code Reference:
 Conforms to NBC 2020 Sentence 3.2.2.12.(1) and tested to CANULC-S101 for a minimum 45-minute fire-resistance rating.

INDICATES 1-HOUR FIRE SEPARATION REQUIREMENTS FOR SEPARATING OCCUPANCIES

Window Schedule					
Mark	Count	Width	Height	Head Height	Comments
100	3	3' - 0"	1' - 6"	7' - 6"	Replace with new
101	2	6' - 2"	6' - 10"	7' - 2"	
102	1	3' - 0"	6' - 10"	7' - 2"	Replace with new
103	2	5' - 8"	6' - 10"	7' - 2"	Replace with new
104	4	6' - 0"	3' - 6"	6' - 8"	
105	7	2' - 0"	2' - 8"	6' - 8"	
106	3	5' - 0"	5' - 0"	6' - 8"	
107	1	2' - 0"	5' - 0"	8' - 0"	

Door Schedule			
Mark	Width	Height	Comments
Second Floor			
301	5' - 11"	6' - 10"	
302	3' - 0"	6' - 8"	
303	2' - 8"	6' - 8"	
304	2' - 8"	6' - 8"	
305	3' - 0"	6' - 8"	
306	2' - 8"	6' - 8"	Pocket Door
307	2' - 8"	6' - 8"	
308	4' - 0"	6' - 8"	Double Door
309	2' - 8"	6' - 8"	
310	4' - 0"	6' - 8"	Double Door
311	2' - 6"	6' - 8"	
312	2' - 8"	6' - 8"	Pocket Door
313	2' - 8"	6' - 8"	
314	2' - 8"	6' - 8"	
315	2' - 6"	6' - 8"	
316	2' - 6"	6' - 8"	
xx	3' - 0"	6' - 8"	Barn Door

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Second Floor Plan

A102

Legend

- Existing
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- Demolished

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① Second Floor Plan
1/4" = 1'-0"



① Front Elevation
1/4" = 1'-0"



Table 3.2.3.7. Minimum Construction Requirements for Exposing Building Faces Forming Part of Sentences 3.1.6.3.(5) and 3.2.3.7.(1) to (4)

Occupancy Classification of Building or Fire Compartment	Maximum Area of Unprotected Openings Permitted, % of Exposing Building Face Area	Minimum Required Fire-Resistance Rating	Type of Construction Required	Type of Cladding Required
Group A, B, C, D, or Group F, Division 3	0 to 10	1 h	Noncombustible	Noncombustible

Table 3.2.3.1-A Maximum Concentrated Area of Unprotected Openings Forming Part of Sentence 3.2.3.1.(5)

Limiting Distance, m	Maximum Area of Individual Unprotected Openings, m ²
1.2m	0.35 sqm (3.8 sq ft)

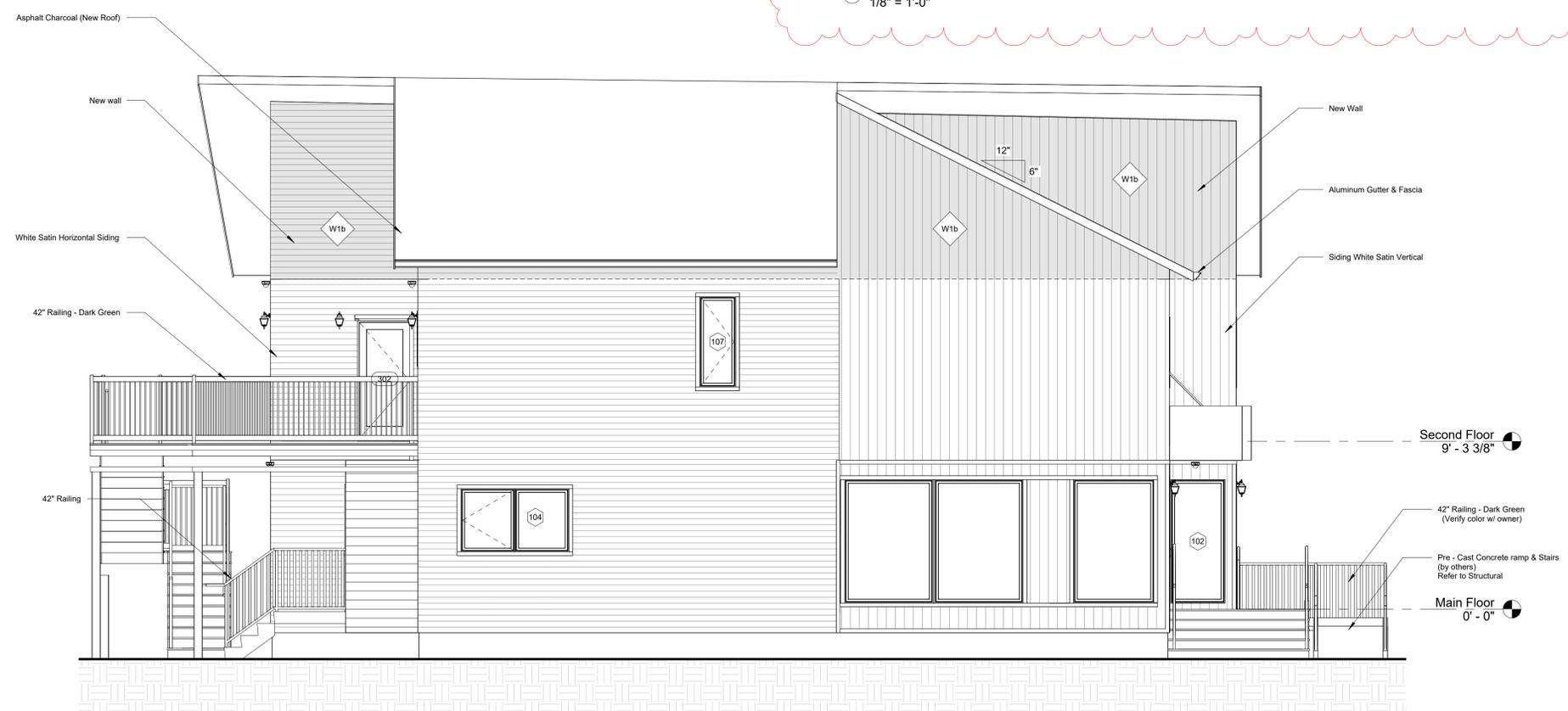
Right Side Window Schedule

Mark	Count	Rough Opening		Head Height	Opening Area
		Width	Height		
Basement					
100	3	3' - 0"	1' - 6"	7' - 6"	8 SF
Second Floor					
105	6	2' - 0"	2' - 8"	6' - 8"	21 SF
					29 SF = 2.69 sqm
Area of Exposing Building Face = 93.58 sqm					

Table 3.2.3.1-B Unprotected Opening Limits for a Building or Fire Compartment that is not Sprinklered Throughout Forming Part of Article 3.2.3.1.

Occupancy Classification of Building	Exposing Building Face	Area of Unprotected Opening %	
		Limiting Distance, m	Area of Unprotected Opening %
Groups A, C, D, and F, Division 3	100 sqm	1.2m	7%
		Area Opening = 2.69 sqm Area of Exposing Building Face = 93.58sqm x 100% = 2.9%	

③ Spatial Separation and Exposure Protection Compliance
1/8" = 1'-0"



② Left Side Elevation
1/4" = 1'-0"

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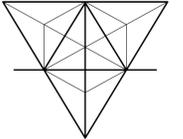
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**Front & Left Side
Elevations**

A200



**Sweetlife Flora
Commercial w/
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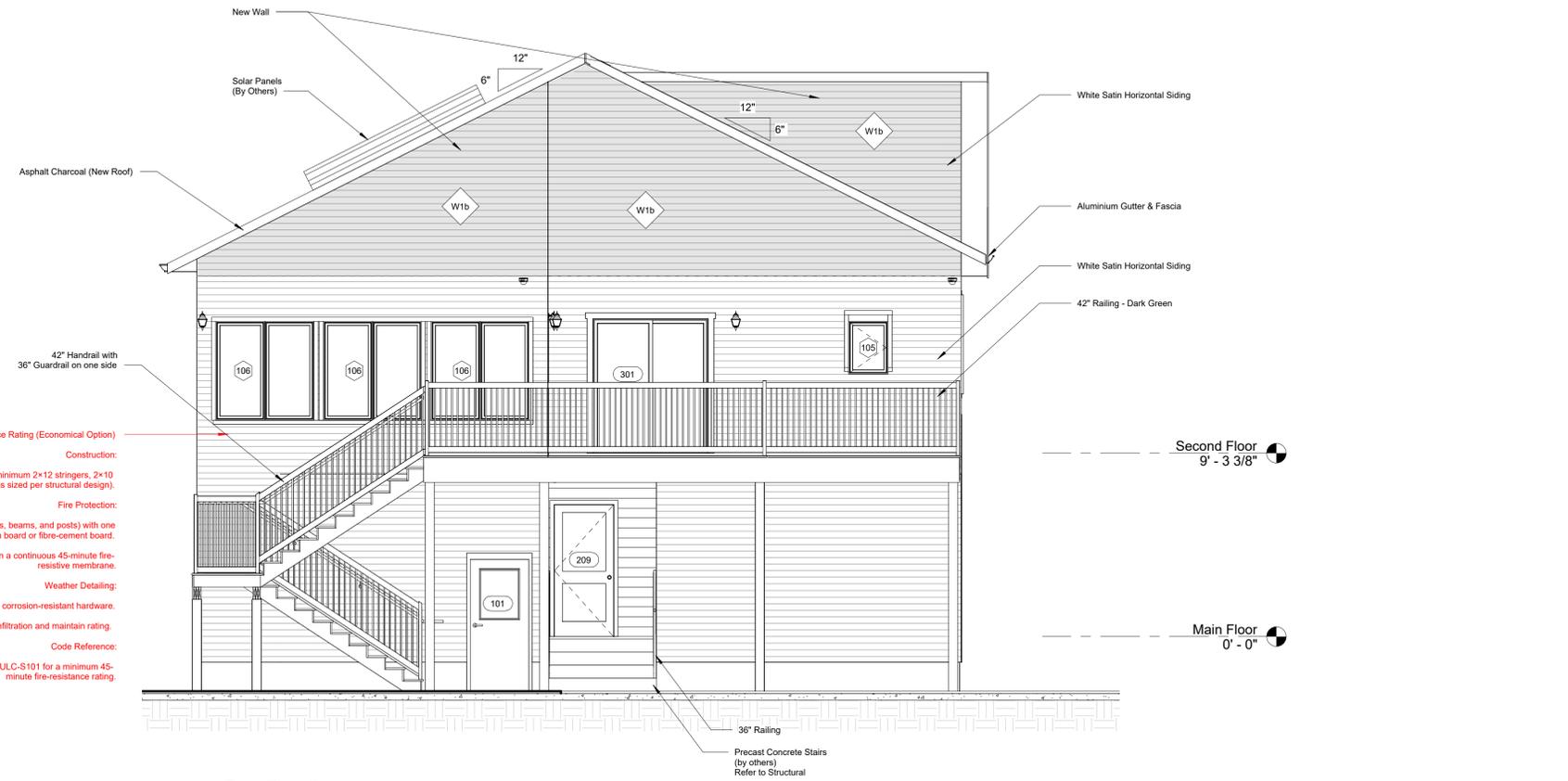
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**Rear & Right Side
Elevations**

A201

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① Rear Elevation
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Exterior Exit Stair - 45-Minute Fire-Resistance Rating (Economic Option)

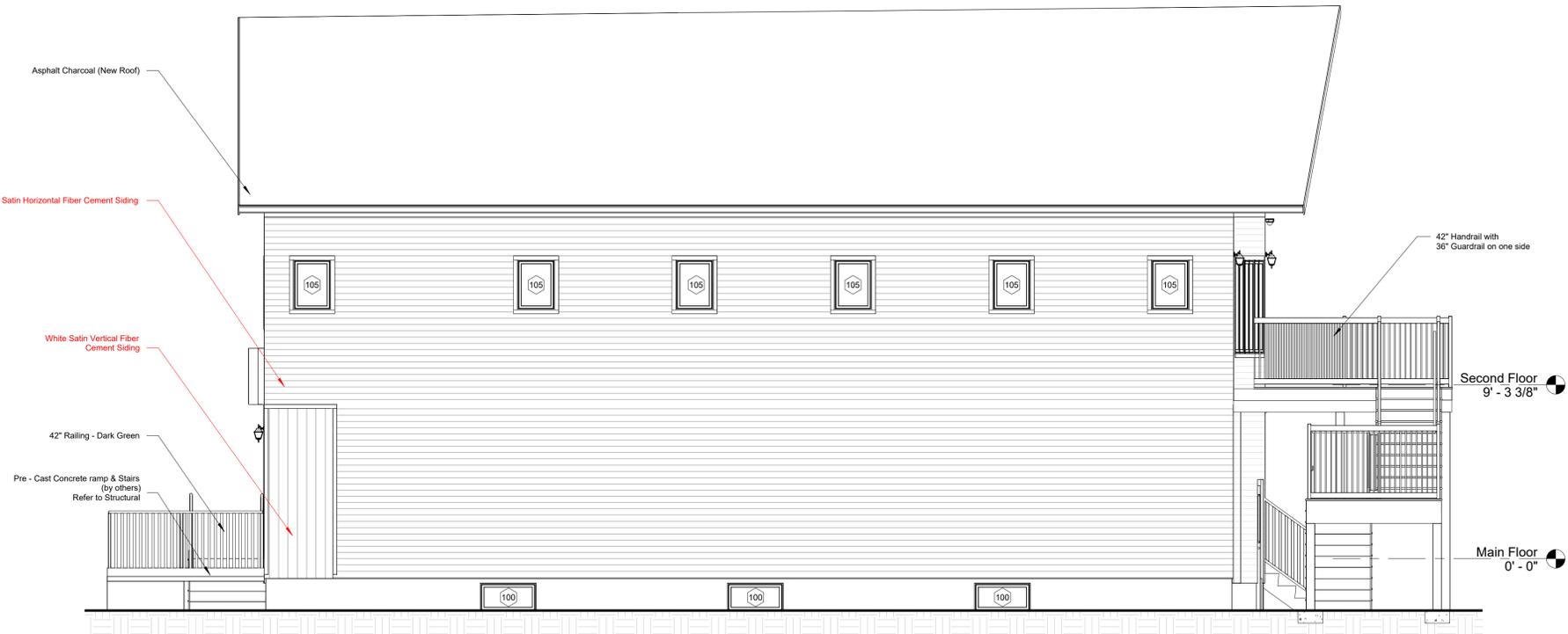
Construction:
Build stair and landing with pressure-treated dimensional lumber (minimum 2x12 stringers, 2x10 treads/risers, posts and beams sized per structural design).

Fire Protection:
Wrap all load-bearing members (stringers, treads, undersides, landings, beams, and posts) with one layer of 1/2" (12.5mm) Type X exterior-grade gypsum board or fibre-cement board.

Fasten and tape joints per manufacturer's instructions to maintain a continuous 45-minute fire-resistive membrane.

Weather Detailing:
Use exterior-rated fasteners and corrosion-resistant hardware.
Provide flashing and sealant at all exposed edges to prevent water infiltration and maintain rating.

Code Reference:
Conforms to NBC 2020 Sentence 3.2.2.12.(1) and tested to CANULC-S101 for a minimum 45-minute fire-resistance rating.



② Right Side Elevation
1/4" = 1'-0"

**Sweetlife Flora
Commercial w/
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ISSUE SET

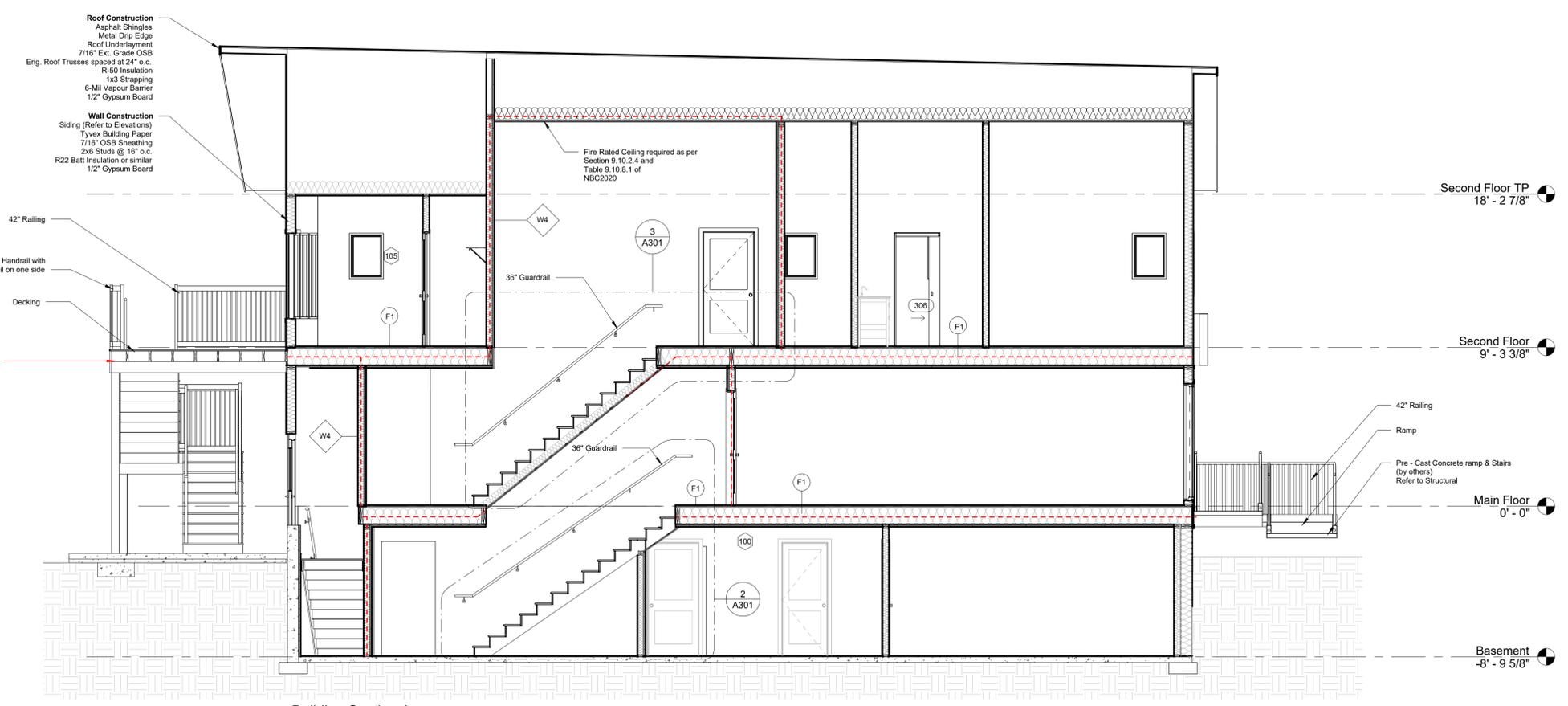
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**Building Sections
and Details**

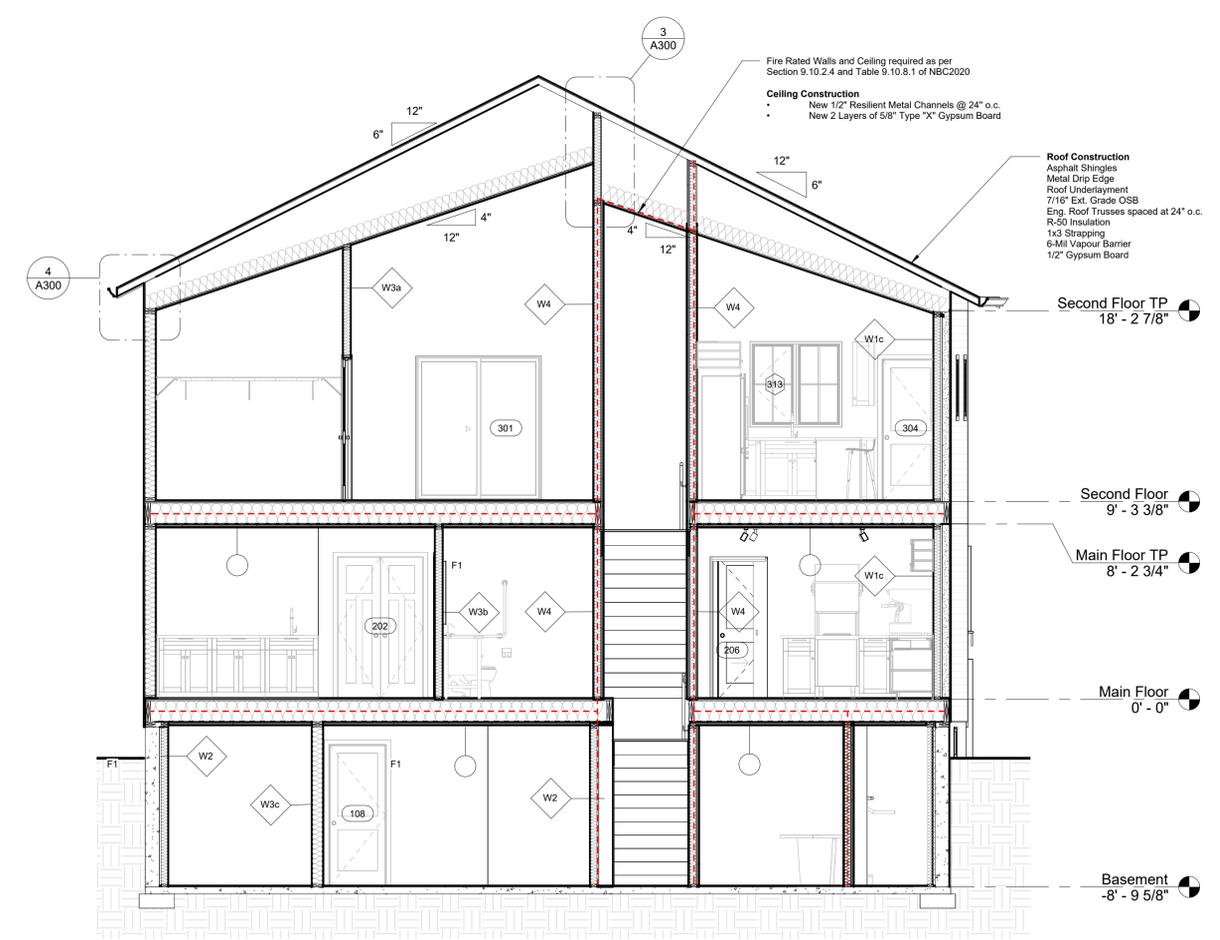
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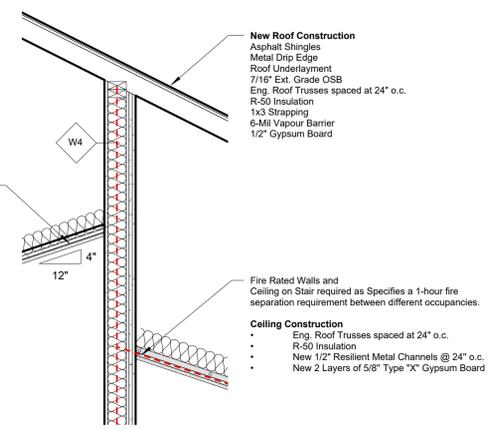


1 Building Section A
1/4" = 1'-0"

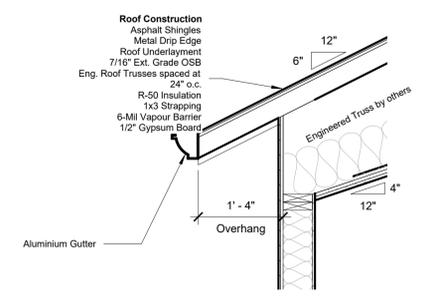
SPECIFIES A 1-HOUR FIRE SEPARATION REQUIREMENT BETWEEN DIFFERENT OCCUPANCIES.



2 Building Section B
1/4" = 1'-0"



3 Wall Detail
3/4" = 1'-0"



4 Roof Overhang Detail
3/4" = 1'-0"

Exterior Exit Stair - 45-Minute Fire-Resistance Rating (Economic Option)

Construction:
Build stair and landing with pressure-treated dimensional lumber (minimum 2x12 stringers, 2x10 treads/risers, posts and beams sized per structural design).

Fire Protection:
Wrap all load-bearing members (stringers, treads, undersides, landings, beams, and posts) with one layer of 16 mm (5/8") Type X exterior-grade gypsum board or fibre-cement board.
Fasten and tape joints per manufacturer's instructions to maintain a continuous 45-minute fire-resistive membrane.

Weather Detailing:
Use exterior-rated fasteners and corrosion-resistant hardware.
Provide flashing and sealant at all exposed edges to prevent water infiltration and maintain rating.

Code Reference:
Conforms to NBC 2020 Sentence 3.2.2.12.(1) and tested to CAN/ULC-S101 for a minimum 45-minute fire-resistance rating.

Sweetlife Flora Commercial w/ Residential

PROJECT ADDRESS
651 Mountain Rd., Moncton NB

PROJECT TEAM

STAMP



ISSUE SET

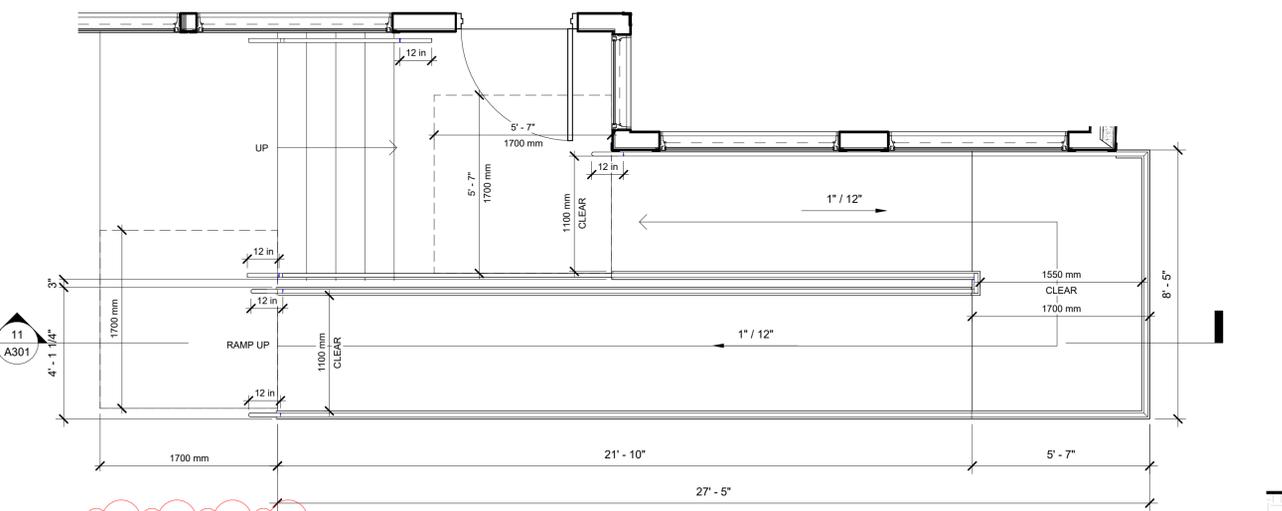
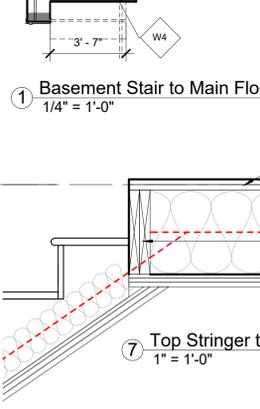
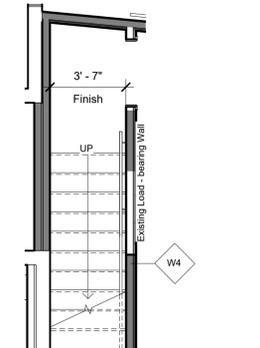
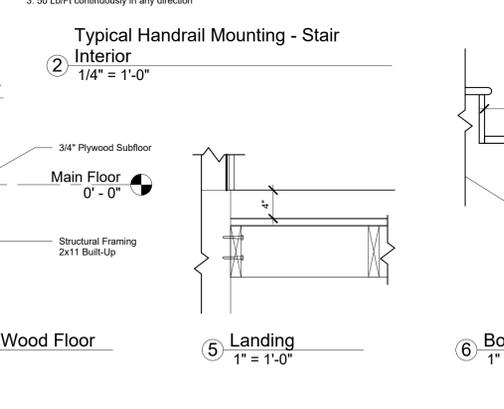
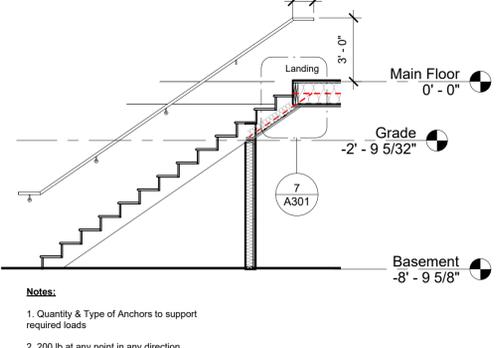
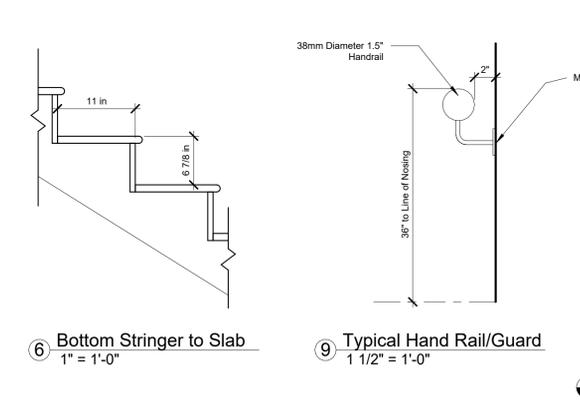
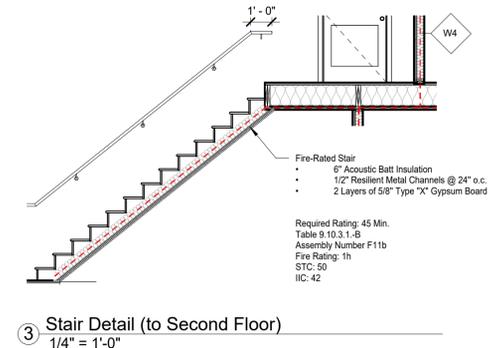
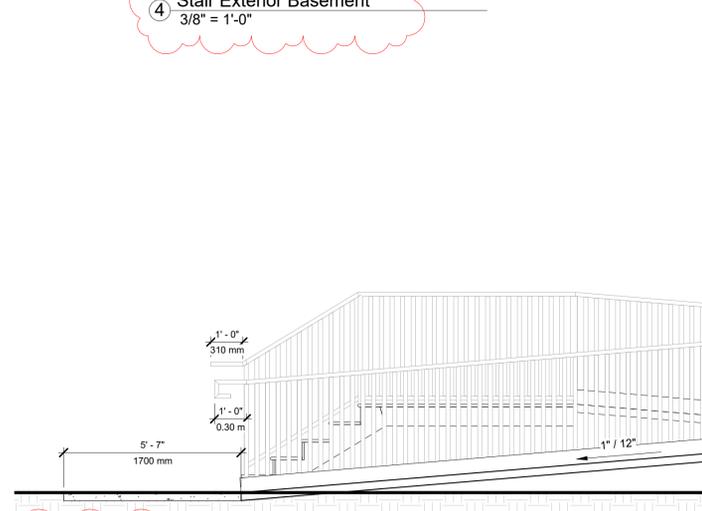
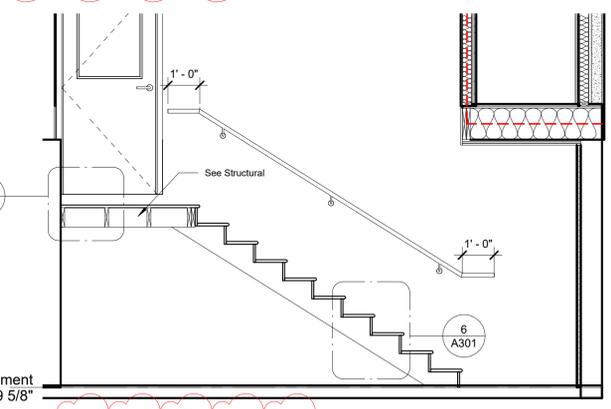
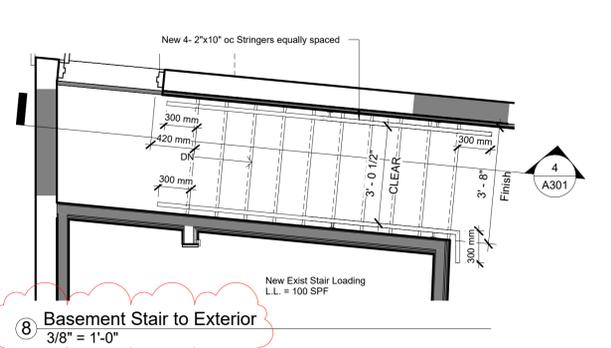
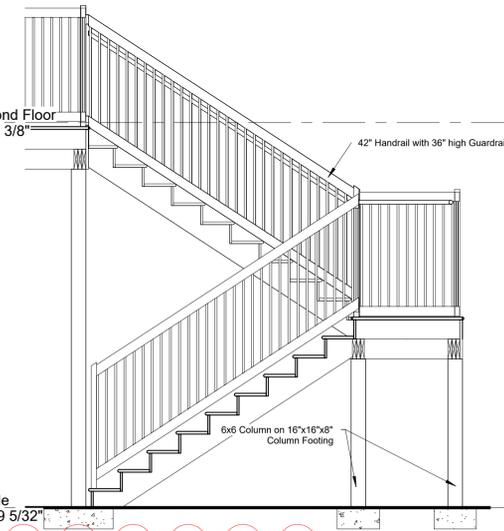
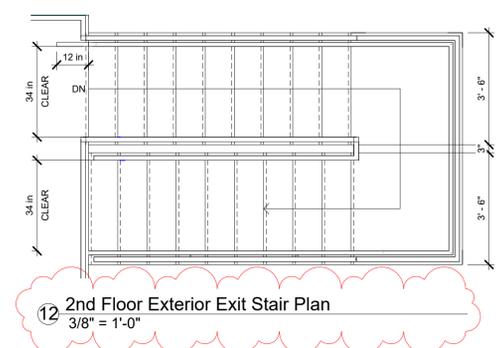
Issued for Permit

DATE	9/30/2025 9:34:30 AM
JOB NO	24028CANB
DRAWN BY	L. Assis
CHECKED BY	A. Cabreira
NO DESCRIPTION	BY Date
1 Dimensions	AC Date

Stair Details and Assemblies

A301

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W1a EXISTING EXTERIOR WALL - SOUND PROOF

- EXISTING SIDING (REFER TO ELEVATION)
- EXISTING VERT. STRAPPING
- EXISTING WEATHER BARRIER SHEET
- EXISTING 7/16" O.S.B SHEATHING
- EXISTING 2X6 STUDS @ 16" O.C.
- NEW R-24 BATT INSULATION
- NEW 6-MIL POLY VAPOUR BARRIER
- NEW 5/8" TYPE 'X' GYPSUM BOARD (PAINT FINISHED)

W1b NEW EXTERIOR WALL TO EXTEND EXISTING WALL TO THE NEW ROOF LINE, OR TO CREATE A NEW WALL WHERE REQUIRED. SOUNDPROOFING AS NEEDED.

- NEW VERT. STRAPPING
- NEW WEATHER BARRIER SHEET (TYVEK)
- NEW 7/16" O.S.B SHEATHING
- NEW 2X6 STUDS @ 16" O.C.
- NEW R-24 BATT INSULATION
- NEW 6-MIL POLY VAPOUR BARRIER
- NEW 5/8" TYPE 'X' GYPSUM BOARD (PAINT FINISHED)

W1c EXISTING EXTERIOR WALL WITH NEW NONCOMBUSTIBLE CLADDING

- NEW NONCOMBUSTIBLE FIBER CEMENT CLADDING TO MATCH EXISTING (REFER TO ELEVATION)
- NEW VERT. STRAPPING
- NEW WEATHER BARRIER SHEET (TYVEK)
- NEW 7/16" O.S.B SHEATHING
- EXISTING 190MM CONCRETE BLOCK
- EXISTING STEEL STUDS @ 16" O.C.
- NEW ABSORPTIVE MATERIAL FILLING
- NEW 5/8" TYPE 'X' GYPSUM BOARD (PAINT FINISHED)

W1d EXISTING EXTERIOR WALL WITH RIGID INSULATION ON EXIT STAIR

- EXISTING 8" CONCRETE FOUNDATION WALL
- 1" RIGID INSULATION
- 1/2" TYPE X GYPSUM BOARD

W2 INSULATED INTERIOR 2X4 WALL ON EXISTING FOUNDATION WALL

- NEW 1/2" GWB (PAINT FINISH UNLESS NOTED)
- NEW 2X4 STUD FRAMING @ 16" O.C. CW 1 ROW OF BLOCKING (WHERE REQUIRED)
- NEW SOUND BATT INSULATION
- NEW 1" AIRSPACE
- EXISTING 8" CONCRETE FOUNDATION WALL

F1 FIRE-RATED FLOOR SYSTEM

- NEW FINISH FLOORING
- EXISTING 3/4" OSB SUBFLOOR GLUED AND NAILED
- EXISTING PRE-ENGINEERED JOIST
- NEW 6" ACOUSTIC BATT INSULATION
- NEW 1/2" RESILIENT METAL CHANNELS @ 600MM (24") O.C.
- NEW 2 LAYERS OF 5/8" TYPE 'X' GYPSUM BOARD

REQUIRED RATING: 1H MIN.
TABLE 9.10.3.1-B
ASSEMBLY NUMBER F9D
FIRE RATING: 1H
STC: 52
IC: 46

W3a TYPICAL INTERIOR 2X4 WALL

- 1/2" GWB (PAINT FINISH)
- 2X4 STUD FRAMING @ 16" O.C. CW 1 ROW OF BLOCKING (WHERE REQUIRED)
- 1/2" GWB (PAINT FINISH)

W3b INSULATED INTERIOR 2X4 WALL

- 1/2" GWB (PAINT FINISH UNLESS NOTED)
- 2X4 STUD FRAMING @ 16" O.C.
- SOUND BATT INSULATION (ULC LISTED)
- 1/2" GWB (PAINT FINISH UNLESS NOTED)

W3c INSULATED INTERIOR 2X6 WALL

- 1/2" GWB (PAINT FINISH UNLESS NOTED)
- 2X6 STUD FRAMING @ 16" O.C.
- SOUND BATT INSULATION (ULC LISTED)
- 1/2" GWB (PAINT FINISH UNLESS NOTED)

W3d INTERIOR 2X6 WALL

- 1/2" GWB (PAINT FINISH UNLESS NOTED)
- 2X6 STUD FRAMING @ 16" O.C.
- 1/2" GWB (PAINT FINISH UNLESS NOTED)

W3b INSULATED INTERIOR 2X4 WALL

- PAINT FINISH UNLESS NOTED
- 1/2" GWB
- 2X4 STUD FRAMING @ 16" O.C. CW 1 ROW OF BLOCKING
- SOUND BATT INSULATION (ULC LISTED)
- 1/2" GWB
- PAINT FINISH UNLESS NOTED

W4 Fire Rated Stair Wall

- 2 LAYERS 5/8" TYPE 'X' GWB (PAINT FINISH UNLESS NOTED)
- RESILIENT METAL CHANNELS
- 2X6 STUD FRAMING @ 16" O.C.
- SOUND BATT INSULATION
- 1 LAYER 5/8" TYPE 'X' GWB (PAINT FINISH UNLESS NOTED)

REQUIRED FIRE RESISTANCE: 1H.
REQUIRED STC: 50
TABLE 9.10.3.1-A
ASSEMBLY NUMBER W4A
FIRE RESISTANCE NUMBER: 1H.
STC: 51

F2 FIRE-RATED FLOOR SYSTEM IN STAIR

- NEW FINISH FLOORING
- EXISTING OSB SUBFLOOR
- EXISTING FLOOR JOIST SPACING
- NEW 6" ACOUSTIC BATT INSULATION
- NEW 1/2" RESILIENT METAL CHANNELS @ 600MM (24") O.C.
- NEW 2 LAYERS OF 5/8" TYPE 'X' GYPSUM BOARD

REQUIRED RATING: 1H MIN.
TABLE 9.10.3.1-B
ASSEMBLY NUMBER F11B
FIRE RATING: 1H
STC: 50
IC: 42