

CONSTRUCTION NOTES

EXCAVATION AND BACKFILL

- EXCAVATIONS SHALL BE UNDERTAKEN IN SUCH A MANNER TO PREVENT DAMAGE TO ADJACENT PROPERTY, EXISTING STRUCTURES, UTILITIES, ROADS AND SIDEWALKS AT ALL STAGES OF CONSTRUCTION.
- EXCAVATIONS SHALL BE KEPT FREE OF STANDING WATER.
- EXCAVATIONS SHALL NOT ENCR OACH INTO THE ANGLE OF REPOSE OF SOILS SUPPORTING ADJACENT FOOTINGS UNLESS DESIGNED, APPROVED, AND MONITORED BY A PROFESSIONAL ENGINEER OF ONTARIO.
- THE BOTTOM OF EXCAVATIONS BASES SHALL BE FREE OF ORGANIC MATERIALS AND UNSUITABLE SOILS.
- BACKFILL WITHIN 24" [600mm] OF THE FOUNDATION SHALL BE FREE OF DELETERIOUS DEBRIS AND BOULDERS LARGER THAN 10" [250mm] DIAMETER.
- BACKFILL SHALL BE GRADED TO PREVENT DRAINAGE TOWARDS THE FOUNDATION AFTER SETTLLING.
- EXTERIOR GRADING SHALL BE GRADED SO THAT IT DOES NOT ADVERSELY AFFECT ADJACENT PROPERTIES.

SOIL GAS CONTROL

- WALL, ROOF AND FLOOR ASSEMBLIES SEPARATING CONDITIONED SPACE FROM THE GROUND SHALL BE CONSTRUCTED TO RESIST THE LEAKAGE OF SOIL GAS FROM THE GROUND INTO THE BUILDING.
- FLOORS-ON-GROUND SHALL BE PROVIDED WITH A ROUGH-IN FOR SUBFLOOR DEPRESSURIZATION AS PER THE ONTARIO BUILDING CODE.

FOOTINGS AND FOUNDATIONS

- FOOTINGS SHALL BE MINIMUM 20 MPa CAST-IN-PLACE CONCRETE AND MINIMUM 48" [1200mm] BELOW FINISHED GRADE.
- FOUNDATIONS SHALL BE FOUNDED ON NATURAL UNDISTURBED SOIL, ROCK, OR COMPACTED GRANULAR FILL WITH A MINIMUM 75 kPa [11 PSJ] BEARING CAPACITY.
- FOUNDATION WALLS SHALL EXTEND NOT LESS THAN 6" [150mm] ABOVE FINISHED GROUND LEVEL.

CONCRETE

- CAST-IN-PLACE CONCRETE SHALL CONFORM TO CSA A23.1; MINIMUM COMPRESSIVE STRENGTH 25 MPa @ 28 DAYS UNLESS NOTED OTHERWISE.

- PROVIDE 5-8% AIR-ENTRAINMENT FOR CONCRETE EXPOSED TO EXTERIOR CONDITIONS.
- REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO CSA G30.12, GRADE 400.
- COLD-WEATHER CONCRETE PRACTICES SHALL CONFORM TO CSA A23.1

WOOD FRAME CONSTRUCTION

- LUMBER SHALL BE SPF NO. 2 OR BETTER; STUDS SHALL BE STUD-GRADE SPF UNLESS NOTED OTHERWISE.
- EXTERIOR FRAMING LUMBER SHALL BE PRESSURE-TREATED WHERE EXPOSED; TREAT CUT ENDS TO MAINTAIN PROTECTION.
- PROVIDE SINGLE BOTTOM PLATES AND DOUBLE TOP PLATES AT EXTERIOR AND LOAD-BEARING WALLS.
- BORING/NOTCHING: HOLES IN FLOOR, ROOF, AND CEILING MEMBERS NOT LARGER THAN 1/4 OF MEMBER DEPTH AND NOT LESS THAN 2" [50mm] FROM EDGES; NOTCHING / HOLES TO COMPLY WITH THE ONTARIO BUILDING CODE AND MANUFACTURER'S SPECIFICATIONS.
- WOOD MEMBERS IN CONTACT WITH CONCRETE OR EXPOSED TO EXTERIOR CONDITIONS SHALL BE PROTECTED IN ACCORDANCE WITH THE ONTARIO BUILDING CODE AND MANUFACTURER'S REQUIREMENTS.

COLUMNS, BEAMS & LINTELS

- PROVIDE SOLID BLOCKING FULL WIDTH UNDER CONCENTRATED LOADS.
- BUILT-UP WOOD BEAMS NOT NAILED SHALL BE BOLTED WITH 12.7 MM DIAMETER BOLTS WITH WASHERS; END BOLTS NOT MORE THAN 24" [600mm] FROM MEMBER ENDS; SPACING NOT MORE THAN 48" [1200mm] O.C.
- COLUMNS SHALL BE NOT LESS THAN THE WIDTH OF THE SUPPORTED MEMBER.

ROOFING

- FASTENERS SHALL BE CORROSION_RESISTANT; PENETRATE THROUGH OR AT LEAST 1/2" [13mm] INTO ROOF SHEATHING.
- EVERY ASPHALT SHINGLE SHALL BE FASTENED WITH MINIMUM 4 NAILS PER SHINGLE (TYPICAL 40" [1000MM] WIDTH), OR AS PER MANUFACTURER.

- PROVIDE EAVE PROTECTION EXTENDING 3'-0" [900MM] UP SLOPE FROM THE EDGE AND AT LEAST 1'-0" [300mm] FROM THE INSIDE FACE OF EXTERIOR WALL.

- ROOF VENTS SHALL BE UNIFORMLY DISTRIBUTED AND DESIGNED TO PREVENT ENTRY OF RAIN, SNOW, AND INSECTS.

- ALL WALL AND CEILING PENETRATIONS SHALL BE SEALED/CAULKED.

- WHERE PANEL-TYPE ROOF SHEATHING REQUIRES EDGE SUPPORT, PROVIDE METAL "H" CLIPS OR 2x2 WOOD BLOCKING; NOT REQUIRED WITH TONGUE AND GROOVE EDGED SHEATHING.

- WHERE THE ROOF SLOPE IS LESS THAN 1 IN 6 OR IN ROOFS THAT ARE CONSTRUCTED WITH ROOF JOISTS, THE UNOBSTRUCTED VENT AREA SHALL BE NOT LESS THAN 1/100 OF THE INSULATED CEILING AREA.

- REQUIRED VENTS MAY BE ROOF TYPE, EAVE TYPE, GABLE-END TYPE OR ANY COMBINATION THEREOF, AND SHALL BE DISTRIBUTED UNIFORMLY ON OPPOSITE SIDES OF THE BUILDING, WITH NOT LESS THAN 25% OF THE REQUIRED OPENINGS LOCATED AT THE TOP OF THE SPACE, AND WITH NOT LESS THAN 25% OF THE REQUIRED OPENINGS LOCATED AT THE BOTTOM OF THE SPACE.

- DISCHARGE ROOF WATER TO GRADE AWAY FROM THE BUILDING; DO NOT DIRECT ROOF WATER TO ADJACENT PROPERTIES.

THERMAL INSULATION & AIR/VAPOUR BARRIERS

- THERMAL PERFORMANCE REQUIREMENTS SHALL BE PROVIDED AS PER SB-12 PACKAGE C-4:

	ZONE 1
CEILING WITHOUT ATTIC SPACE	R31
WALLS ABOVE GRADE	R19 + R7.5 C.I.
EDGE OF BELOW GRADE SLAB	R10
WINDOWS AND SLIDING GLASS DOORS	U 0.28 MAX.

- WALL, CEILING AND FLOOR ASSEMBLIES THAT SEPARATE CONDITIONED SPACE FROM UNCONDITIONED SPACE OF FROM THE GROUND SHALL BE CONSTRUCTED SO AS TO INCLUDE AN AIR BARRIER SYSTEM THAT WILL PROVIDE A CONTINUOUS BARRIER TO AIR LEAKAGE.

- THERMALLY INSULATED WALL, CEILING AND FLOOR ASSEMBLIES SHALL BE CONSTRUCTED WITH A VAPOUR BARRIER SO AS TO PROVIDE A BARRIER TO DIFFUSION OF WATER VAPOUR FROM THE INTERIOR INTO WALL SPACES, FLOOR SPACES OF ATTIC OR ROOF SPACES.

- CAULKING SHALL BE APPLIED TO ALL EXTERIOR DOORS AND WINDOWS BETWEEN THE FRAME AND THE EXTERIOR CLADDING.

- WEATHERSTRIPPING SHALL BE PROVIDED ON ALL DOORS AND ACCESS HATCHES TO EXTERIOR.

DOORS & WINDOWS

- EXTERIOR DWELLING DOORS / WINDOWS WITHIN 6'-6" [2000mm] OF GRADE SHALL BE CONSTRUCTED TO RESIST FORCED ENTRY WHERE APPLICABLE.

- NATURAL VENTILATION REQUIREMENTS SHALL COMPLY WITH THE ONTARIO BUILDING CODE.

- INSTALL EXTERIOR CLADDING, FLASHINGS, TRIM, AND CAULKING PER MANUFACTURER TO PREVENT WATER PENETRATION.

ALARMS & DETECTORS

- AT LEAST ONE SMOKE ALARM SHALL BE INSTALLED ON OR NEAR THE CEILING IN EACH FLOOR AND BASEMENT LEVEL 3'-0" [900mm] OR MORE ABOVE THE ADJACENT LEVEL.

- SMOKE ALARMS SHALL BE INTERCONNECTED AND LOCATED IN EACH BEDROOM, COMPLETE WITH VISUAL COMPONENTS

- CARBON MONOXIDE ALARM SHALL BE INSTALLED ADJACENT TO EVERY SLEEPING AREAS WHERE FUEL-FIRED APPLIANCES ARE PRESENT.

FINISHES & FIXTURES (INSTALLATION)

- INSTALL EXTERIOR CLADDING, CABINETS, INTERIOR TRIM, FLOORING, AND DOORS AS PER MANUFACTURER'S SPECIFICATIONS AND DETAILS.

PLUMBING (GENERAL)

- WATER SERVICE PIPES SHALL BE SIZED ACCORDING TO PEAK DEMAND FLOW BUT SHALL NOT BE LESS THAN 3/4"
- PROVIDE A KITCHEN SINK, LAVATORY, TOILET, AND BATHTUB OR SHOWER AS REQUIRED FOR EACH DWELLING UNIT; LAUNDRY FACILITIES INSTALLED OR AVAILABLE AS APPLICABLE.

- WALLS ENCLOSING THE MAIN BATHROOM SHALL BE REINFORCED TO ALLOW THE FUTURE INSTALLATION OF GRAB BARS FOR THE WATER CLOSET, SHOWER AND BATHTUB AS PER DIV B - 9.5.2.4. OF THE ONTARIO BUILDING CODE.

- PIPING EXPOSED TO FREEZING SHALL BE PROTECTED.

- ALL EXTERIOR DRAINS TO BE INSTALLED BELOW THE DEPTH OF FROST PENETRATION - MINIMUM 4' [1.2m]

- WATER DISTRIBUTION PIPES SHALL NOT BE INSTALLED ON THE EXTERIOR OR UNINSULATED SIDE OF AN EXTERIOR WALL.

- SANITARY BUILDING DRAINS SHALL BE PROVIDED WITH AT LEAST ONE VENT THAT IS NOT LESS THAN 3".

- EVERY NON-METALLIC WATER SERVICE PIPE SHALL HAVE ATTACHED TO IT A TRACER WIRE.

MECHANICAL (GENERAL)

- EXHAUST DUCT CONNECTED TO LAUNDRY DRYING EQUIPMENT SHALL BE INDEPENDENT OF OTHER EXHAUST DUCTS, DESIGNED AND INSTALLED SO THAT THE ENTIRE DUCT CAN BE CLEANED, AND CONSTRUCTED OF SMOOTH CORROSION-RESISTANT MATERIAL.

- EXHAUST DUCTS SHALL DISCHARGE DIRECTLY TO THE OUTDOORS.

- EXHAUST OUTLETS THAT DISCHARGE AIR CONTAINING MOISTURE, SUCH AS BATHROOM VENTILATION AND CLOTHES DRYER EXHAUST OUTLETS, SHALL BE LOCATED AT LEAST 5'-11" [1800mm] FROM AIR INTAKES AND VENTED SOFFITS.

ELECTRICAL (GENERAL)

- PROVIDE EXTERIOR LIGHTS CONTROLLED FROM THE INTERIOR AT EVERY ENTRANCE; PROVIDE LIGHTING (OR SWITCHED RECEPTACLE WHERE PERMITTED) IN ALL HABITABLE ROOMS AND SERVICE AREAS.

- ELECTRICAL WORK SHALL COMPLY WITH THE ONTARIO ELECTRICAL SAFETY CODE (OESC) AND ESA REQUIREMENTS.



Planning and Building Services
Building Division

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- DETACHED ACCESSORY RESIDENTIAL UNITS MAY NOT BE PERMITTED DEPENDING ON LOCATION OF PROPERTY AS PER APPLICABLE ZONING BYLAW.

BUILDING DATA	
BUILDING FOOTPRINT	399.6 ft ² [37.1 m ²]
BUILDING HEIGHT	14'-7" [4.4 m]
STOREYS	1 STOREY
NUMBER OF UNITS	1

DOOR SCHEDULE				
TAG	DIMENSIONS			TYPE
	WIDTH	HEIGHT	THICK.	
D100	2'-8"	7'-0"	1-3/4"	EXTERIOR
D101	2'-2"	7'-0"	1-3/8"	INTERIOR
D102	4'-0"	7'-0"	1-1/4"	INTERIOR - SLIDING

DRAWING SCHEDULE	
A000	COVER SHEET
A001	CONSTRUCTION NOTES
A101	SAMPLE SITE PLAN AND ZONING
A102	MAIN FLOOR PLAN
A103	FOUNDATION AND ROOF PLAN
A201	ELEVATIONS
A301	SECTIONS AND DETAILS
A302	DETAILS
M001	MECHANICAL NOTES
M101	HVAC PLAN
P101	PLUMBING PLAN

WINDOW SCHEDULE				
TAG	DIMENSIONS			TYPE
	WIDTH	HEIGHT	DEPTH	
W100	6'-0"	6'-0"	8-3/4"	DOUBLE HUNG
W101	2'-6"	6'-0"	7-3/4"	FIXED - FROSTED
W102	2'-6"	4'-0"	8-3/4"	DOUBLE HUNG
W103	1'-4"	7'-0"	8-3/4"	FIXED - SIDELIGHT

project

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CONSTRUCTION
NOTES

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A001

SITE AND ZONING RELATED NOTES

GENERAL

- A SURVEY OR SITE PLAN REFERENCING A SURVEY SHALL BE PROVIDED TO SHOW PROPERTY SPECIFIC SITE INFORMATION TO CONFIRM COMPLIANCE.
- COMPLIANCE REQUIREMENTS FOR RELEVANT APPLICABLE LAWS SHALL BE SHOWN ON SITE PLAN. APPROVALS FOR APPLICABLE LAW ARE THE RESPONSIBILITY OF THE PROPERTY OWNER TO OBTAIN.
- SITE ALTERATION PERMIT MAY BE REQUIRED IF SUBSTANTIAL CHANGES ARE MADE TO SITE AND/OR GRADING. APPLICATION AND SUBMISSION OF A SITE ALTERATION PERMIT ARE THE RESPONSIBILITY OF THE PROPERTY OWNER.

LANDSCAPING

- A MINIMUM OF 50% OF THE REAR YARD SHALL BE SOFT LANDSCAPING.

MINIMUM SETBACKS

- THE MINIMUM REAR YARD SETBACK SHALL BE 1.2m.
- THE MINIMUM SIDE YARD SETBACK SHALL BE 1.2m.
- FOR CORNER LOTS, WHERE THE SIDE LOT LINE IS FLANKING A STREET, THE MINIMUM SETBACK OF THE ACCESSORY RESIDENTIAL BUILDING FROM THE FLANKAGE LOT LINE SHALL BE THE SETBACK OF THE PRINCIPAL DWELLING FROM THE FLANKAGE LOT LINE.

MAXIMUM HEIGHT

- THE HEIGHT OF THE ACCESSORY RESIDENTIAL BUILDING SHALL NOT EXCEED 7.5m MEASURED FROM AVERAGE GRADE TO THE HIGHEST POINT OF THE ROOF.
- THE HEIGHT OF THE MAIN WALLS OF AN ACCESSORY RESIDENTIAL BUILDING SHALL NOT EXCEED AN ELEVATION OF 6.0m ABOVE AVERAGE GRADE.
- AVERAGE GRADE MEANS THE AVERAGE ELEVATION OF THE GROUND ALONG THE MAIN WALL OF THE ACCESSORY RESIDENTIAL BUILDING LOCATED CLOSEST TO THE PRINCIPAL DWELLING ON THE SAME LOT. AVERAGE GRADE IS CALCULATED BY SUMMING THE ELEVATIONS AT EACH END OF THE SPECIFIED MAIN WALL AND DIVIDING THE SUM BY 2.

CLEAR ACCESS PATH TO DWELLING UNIT

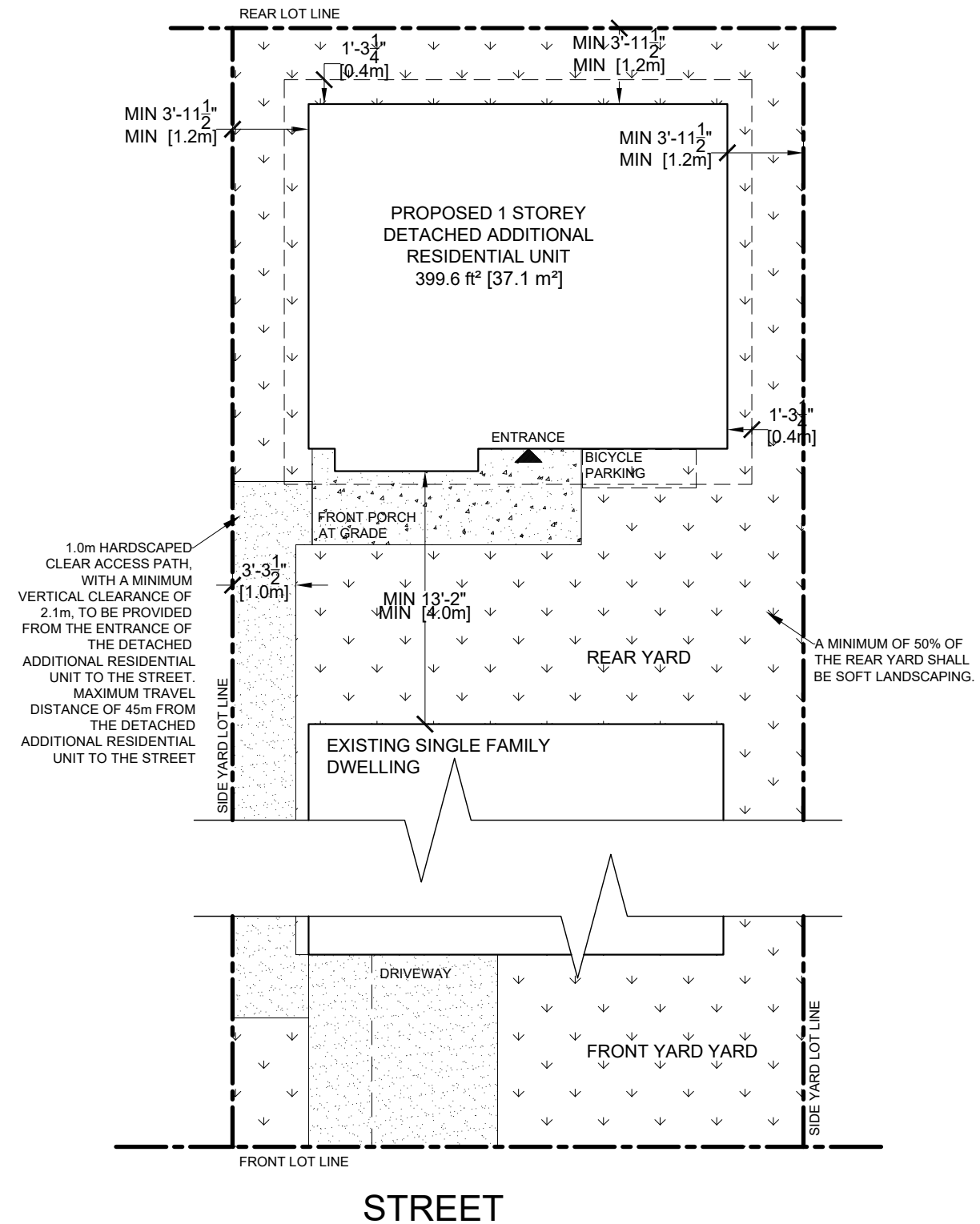
- A 1.0m HARDSCAPED CLEAR ACCESS PATH, WITH A MINIMUM VERTICAL CLEARANCE OF 2.1m SHALL BE PROVIDED FROM THE ENTRANCE OF THE ACCESSORY RESIDENTIAL BUILDING TO THE STREET.
- CLEAR ACCESS PATH SHALL BE FREE FROM ENCROACHMENTS.
- DRIVEWAY MAY FORM PART OF THE CLEAR ACCESS PATH.
- THE MAXIMUM TRAVEL DISTANCE FROM THE DETACHED ADDITIONAL RESIDENTIAL UNIT TO THE STREET SHALL BE 45m.

PARKING

- NUMBER OF PARKING SPACES TO BE PROVIDED AS PER APPLICABLE ZONING BY-LAW, DEPENDING ON THE LOCATION OF THE PROPERTY WHERE THE ACCESSORY RESIDENTIAL BUILDING IS PROPOSED.
- A PARKING SPACE SHALL BE A MINIMUM OF 2.75m x 5.8m.
- NUMBER OF COVERED BICYCLE PARKING SPACES TO BE PROVIDED AS PER APPLICABLE ZONING BY-LAW, DEPENDING ON THE LOCATION OF THE PROPERTY WHERE THE ACCESSORY RESIDENTIAL BUILDING IS PROPOSED.
- A BICYCLE PARKING SPACE SHALL BE A MINIMUM OF 0.6m x 1.8m WITH 1.9m VERTICAL CLEARANCE.

SITE FENCING

- SITE FENCE TO BE ERECTED AND MAINTAINED TO FULLY ENCLOSE THE SITE OF PROPOSED CONSTRUCTION, INCLUDING AREAS WHERE MATERIAL IS STORED AND EQUIPMENT IS OPERATED AND STORED.



SAMPLE SITE PLAN

SCALE 1/8" = 1'-0"

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project

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STUDIO-001

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SAMPLE SITE PLAN
AND ZONING

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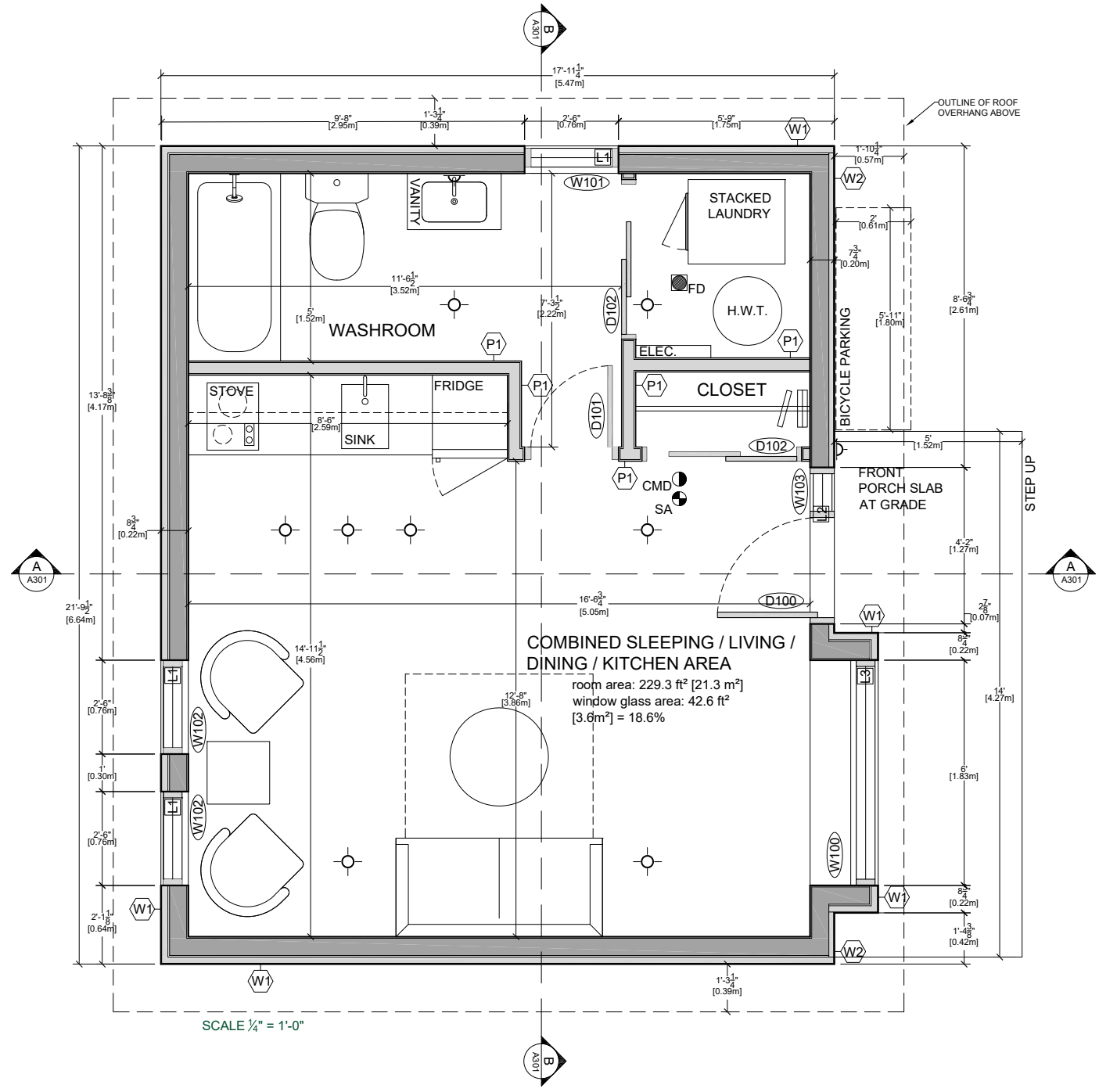
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WALL SCHEDULE		
TYPE	PLAN VIEW	DESCRIPTION
(W1)		EXTERIOR STUCCO FINISH WALL: -STUCCO FINISH -2" RIGID INSULATION BOARD (MIN. R7.5 C.I. FLEXLITE SELECT INSULATION BOARD OR SIMILAR) -AIR BARRIER -½" EXTERIOR TYPE SHEATHING -2x6 WOOD STUDS @ 16" O.C. -R22 BATT INSULATION -6 MIL POLY VAPOUR BARRIER -½" GYPSUM BOARD
(W2)		EXTERIOR SIDING FINISH WALL: -½" GYPSUM BOARD -6 MIL POLY VAPOUR BARRIER -2x6 WOOD STUDS @ 16" O.C. -R22 BATT INSULATION -1-½" R7.5 RIGID INSULATION FOR EXTERIOR TYPE SHEATHING -AIR BARRIER -VINYL SIDING
(P1)		PARTITION WALL -½" GYPSUM BOARD -2x4 WOOD STUDS @ 16" O.C. -½" GYPSUM BOARD
(F1)		FOUNDATION WALL: -R10 RIGID INSULATION ON FOUNDATION WALL MINIMUM 24" BELOW EXTERIOR GRADE -8" POURED FOUNDATION WALL
FLOOR, CEILING AND ROOF SCHEDULE		
(FL1)		SLAB ON GRADE: -FLOORING AS PER MANUFACTURER'S SPECIFICATIONS -4" CONCRETE SLAB -6 MIL POLY VAPOUR BARRIER -2" R10 CONTINUOUS RIGID INSULATION -4" CRUSHED GRAVEL -COMPACTED FILL
(C1)		LOW CEILING: 2x6 CEILING JOISTS @ 16" O.C. ½" GYPSUM BOARD
(R1)		ROOF: -LOW SLOPE ASPHALT SHINGLES -SHEATHING PAPER -¾" PLYWOOD OR OSB O-2 GRADE ROOF SHEATHING -2X2 CROSS PURLINS @ 16" O.C. -2X12 ROOF JOIST @ 24" O.C. -R31 BATT INSULATION -6 MIL POLY VAPOUR BARRIER -½" GYPSUM BOARD

ANNOTATION LEGEND	
	CARBON MONOXIDE ALARM
	SMOKE ALARM
	FLOOR DRAIN
	CEILING MOUNTED LIGHTING FIXTURE
	WALL MOUNTED LIGHTING FIXTURE
	WALL, FLOOR, CEILING OR ROOF ASSEMBLY TAG
	DOOR OR WINDOW TAG
	LINTEL TAG
	BUILDING SECTION NUMBER DRAWING SHEET NUMBER
	DETAIL NUMBER DRAWING SHEET NUMBER

LINTEL SCHEDULE	
L1	2-2"x4"
L2	2-2"x6"
L3	2-2"x8"



MAIN FLOOR PLAN

SCALE ¼" = 1'-0"

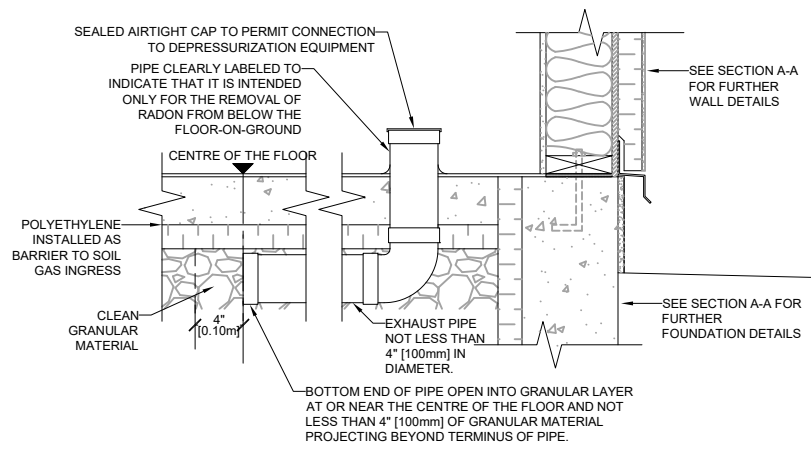
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project	RH-ARU STUDIO-001
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reference no.	RM-26-00006
date	March 9 2026
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sheet no.	A102

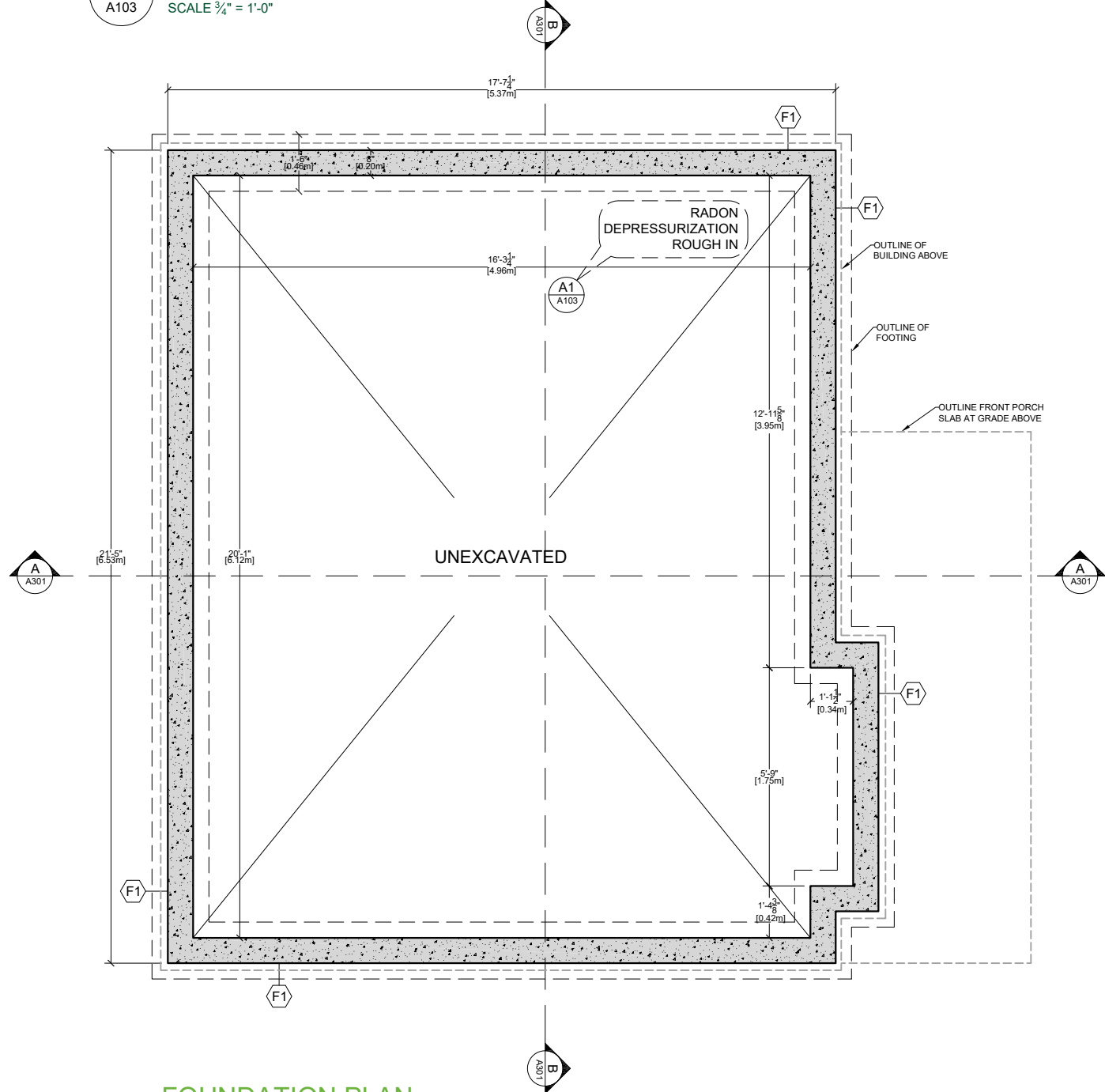
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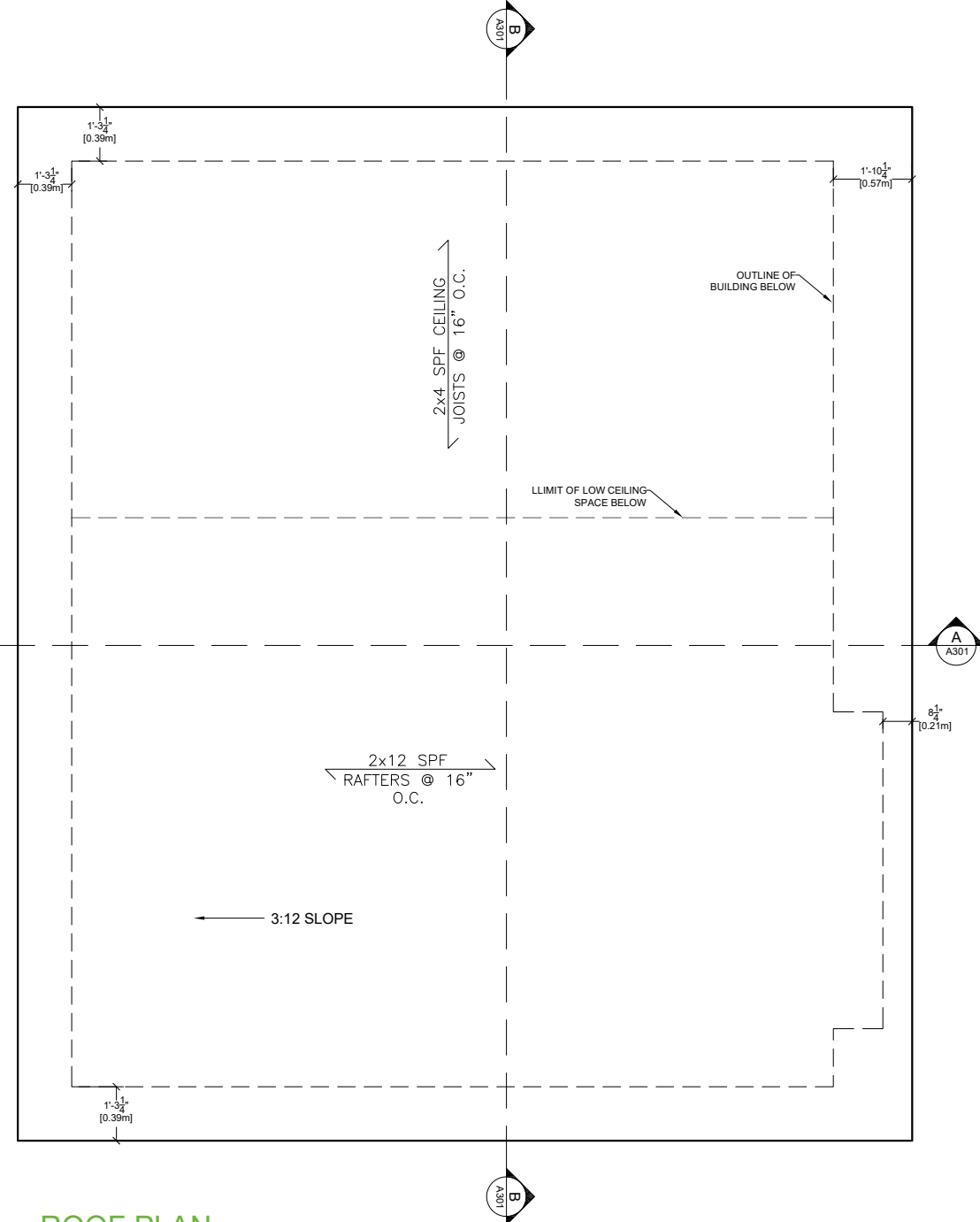
A1 RADON ROUGH-IN DETAIL

A103 SCALE 3/4" = 1'-0"



FOUNDATION PLAN

SCALE 3/4" = 1'-0"



ROOF PLAN

SCALE 3/4" = 1'-0"

project

RH-ARU
STUDIO-001

drafted by City of Richmond Hill

reference no. RM-26-00006

date March 9 2026

scale 1/4" = 1'-0"

sheet title

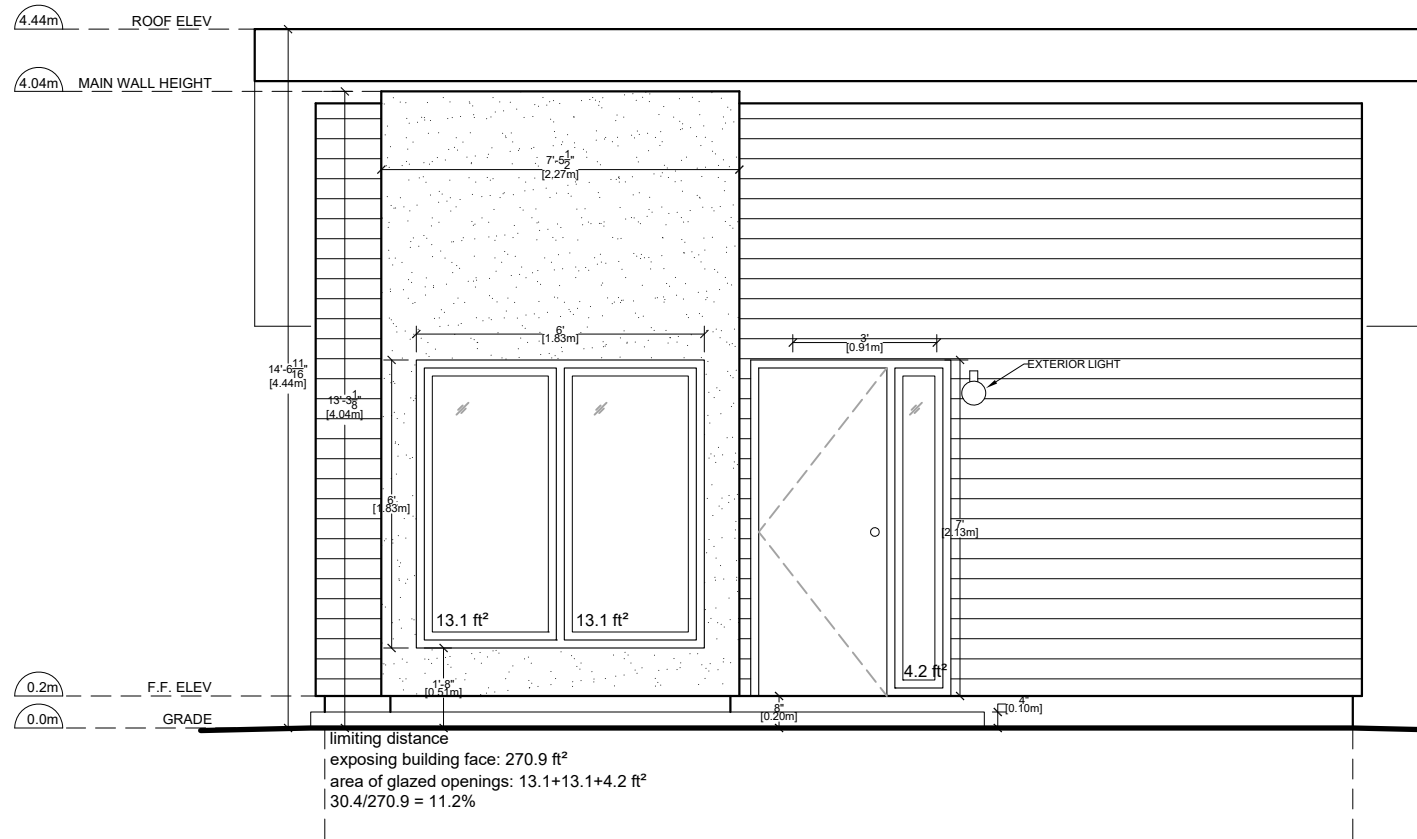
FOUNDATION AND
ROOF PLAN

sheet no.

A103

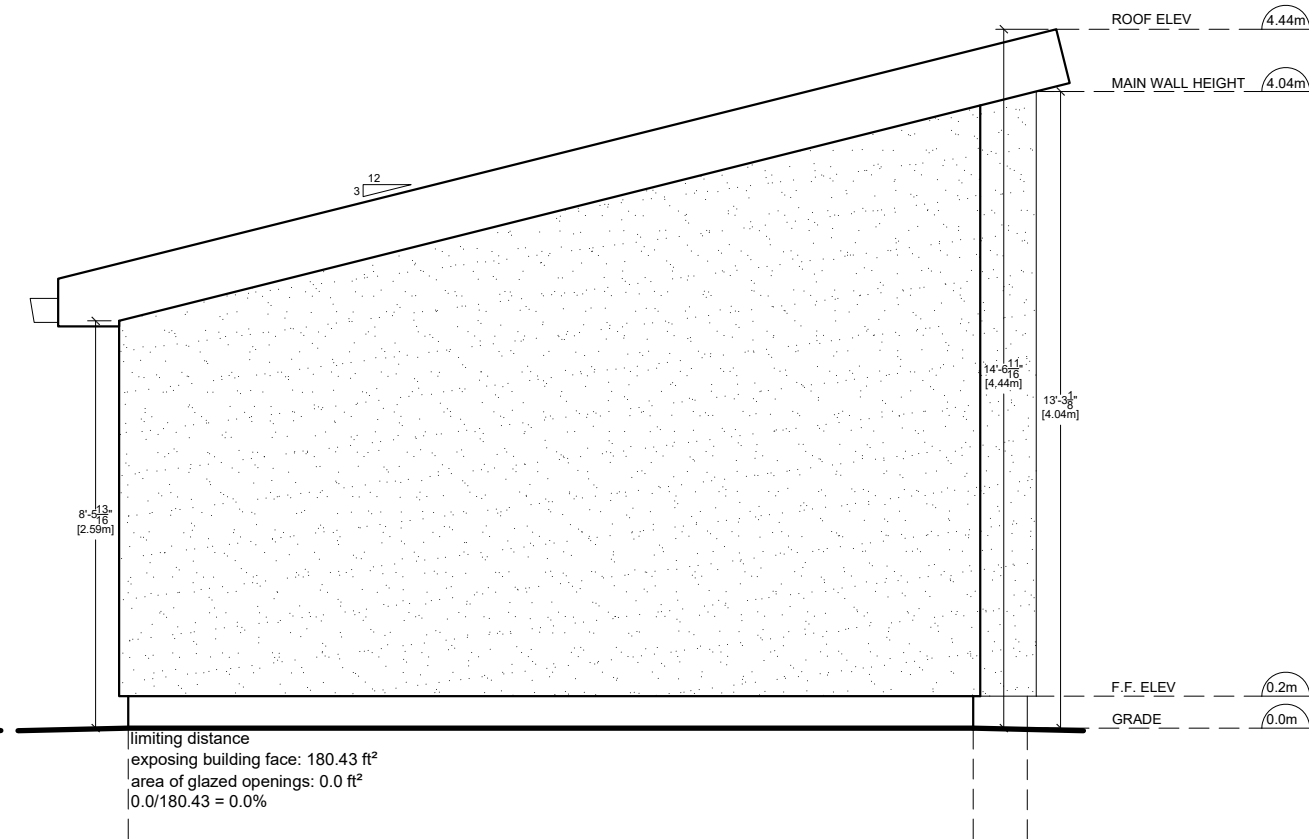
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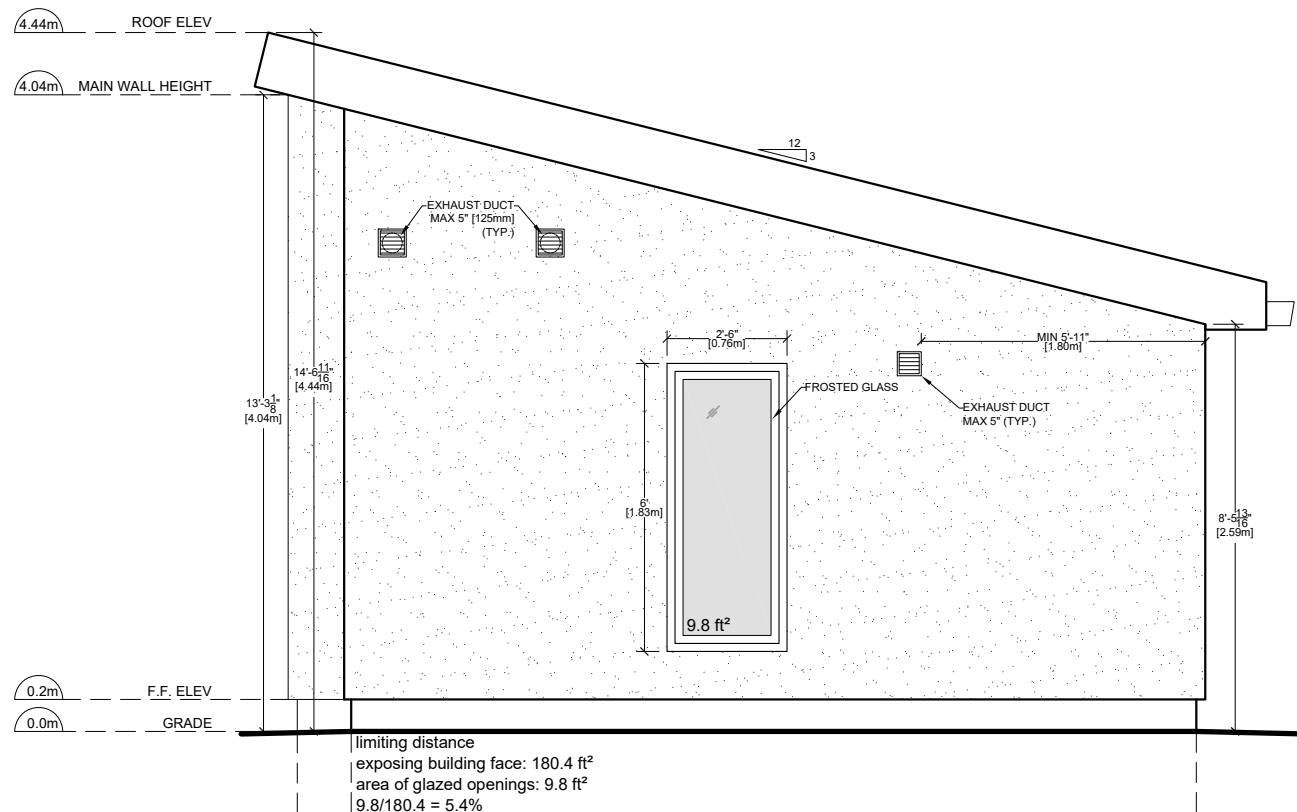
FRONT ELEVATION

SCALE 1/4" = 1'-0"



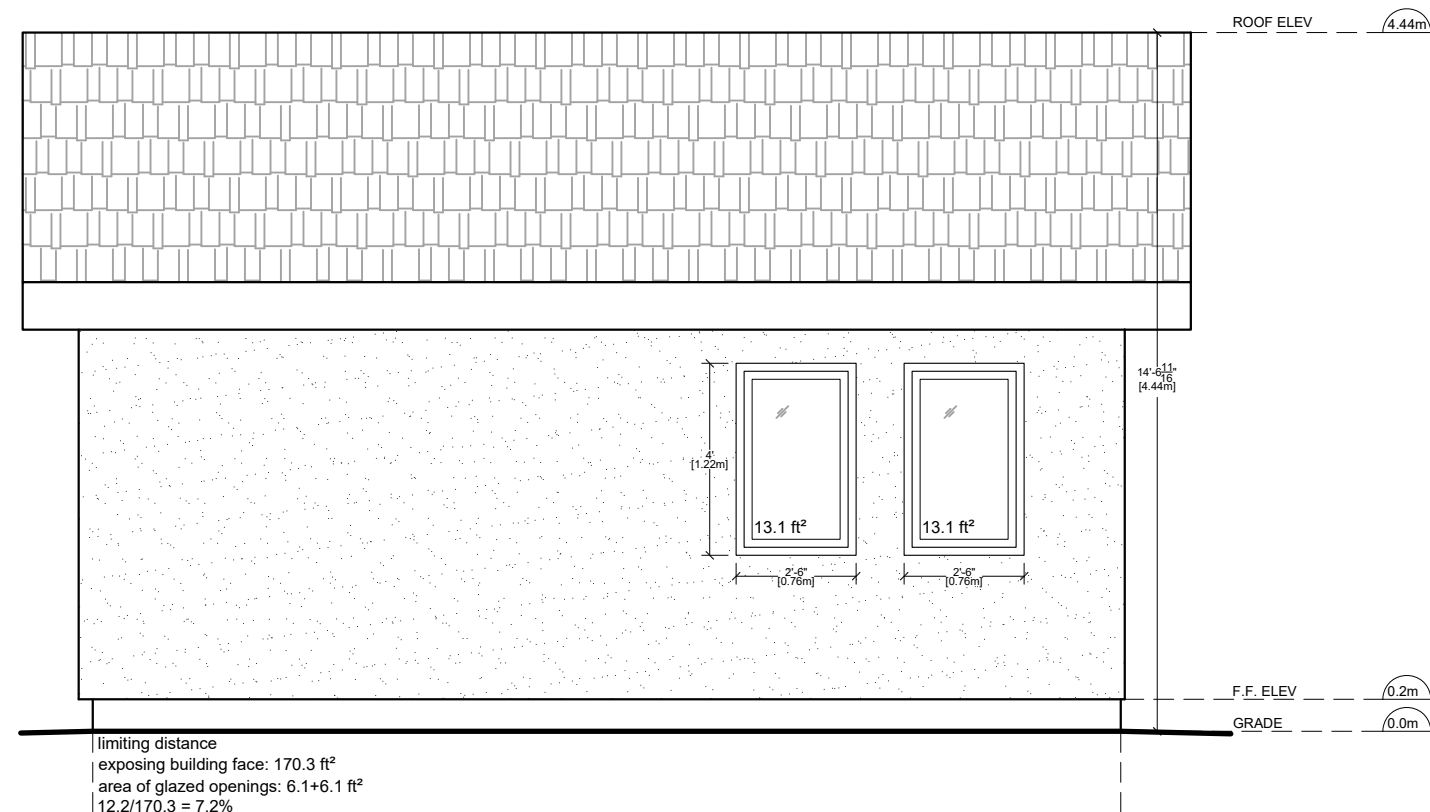
SIDE ELEVATION

SCALE 1/4" = 1'-0"



SIDE ELEVATION

SCALE 1/4" = 1'-0"



REAR ELEVATION

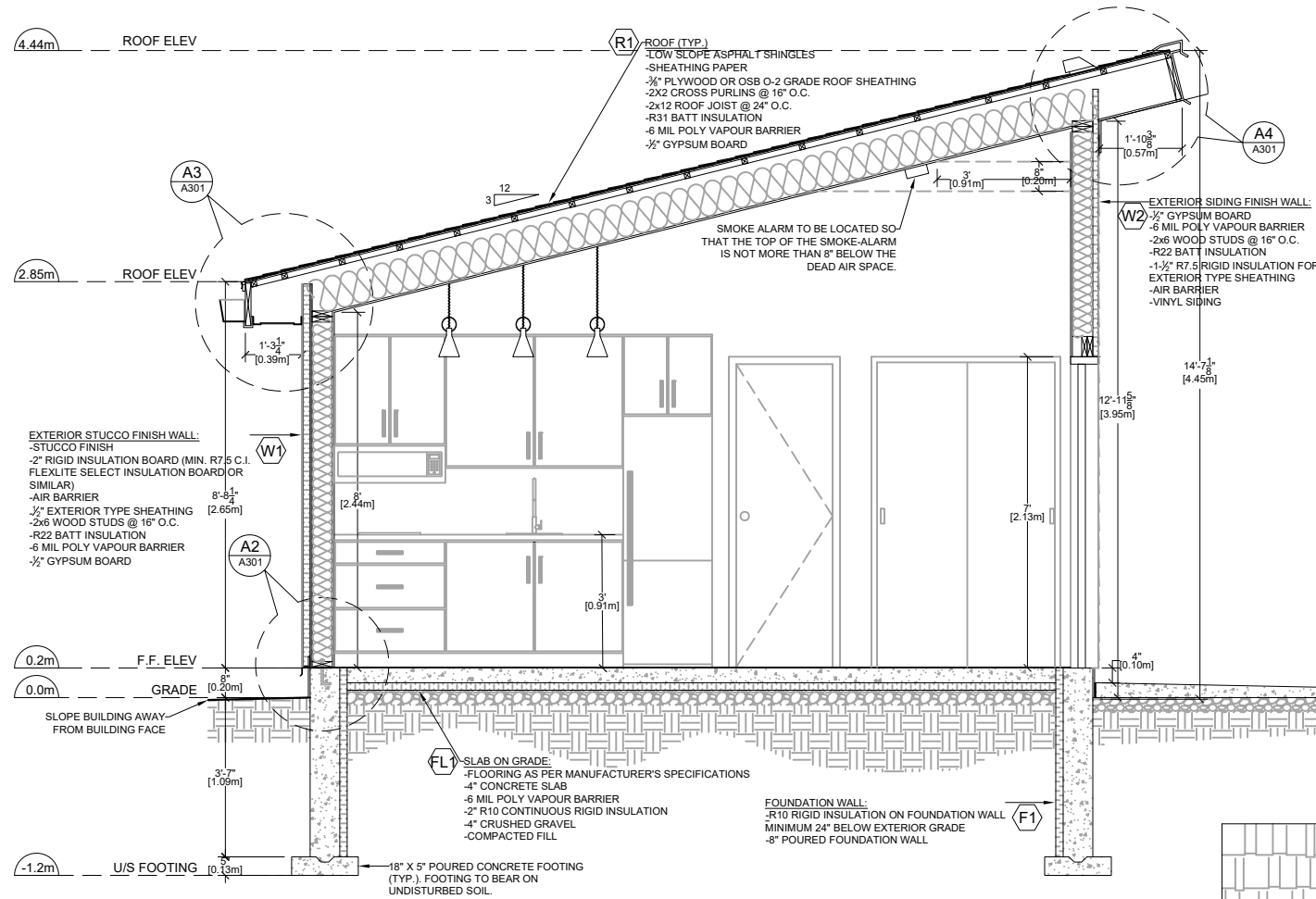
SCALE 1/4" = 1'-0"

project	RH-ARU STUDIO-001 yellow belt
drafted by	City of Richmond Hill
reference no.	RM-26-00006
date	March 9 2026
scale	1/4" = 1'-0"
sheet title	ELEVATIONS

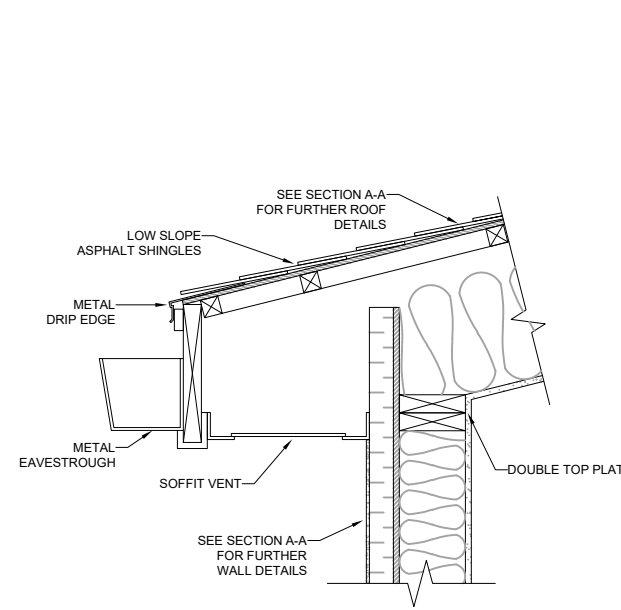
sheet no. **A201**
5 of 7

GENERAL NOTES

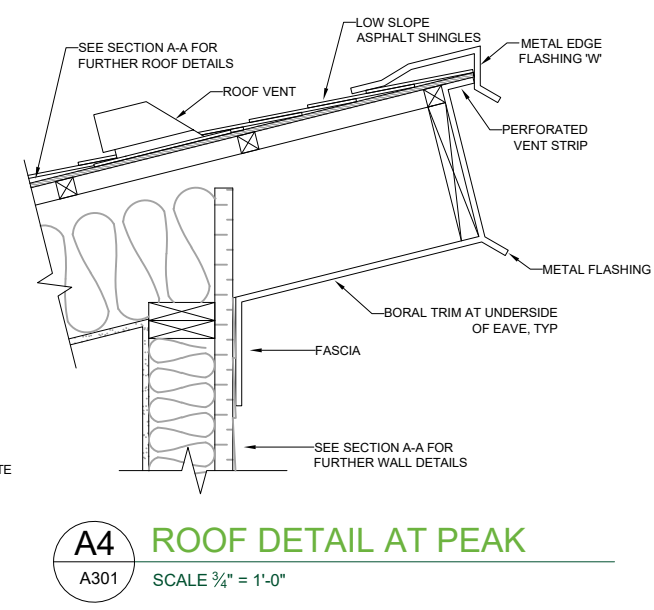
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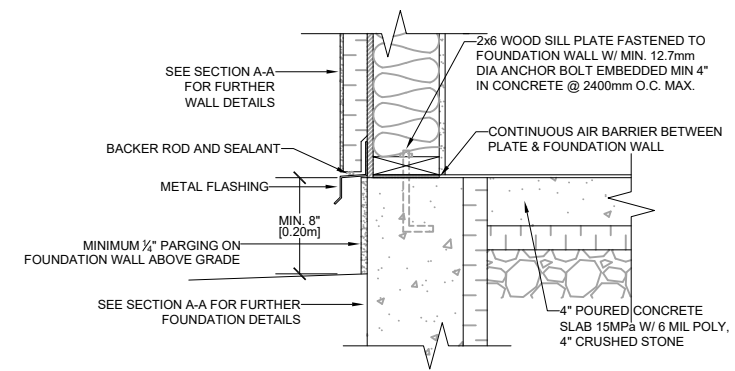
A-A TRANSVERSE SECTION
A301 SCALE 3/4" = 1'-0"



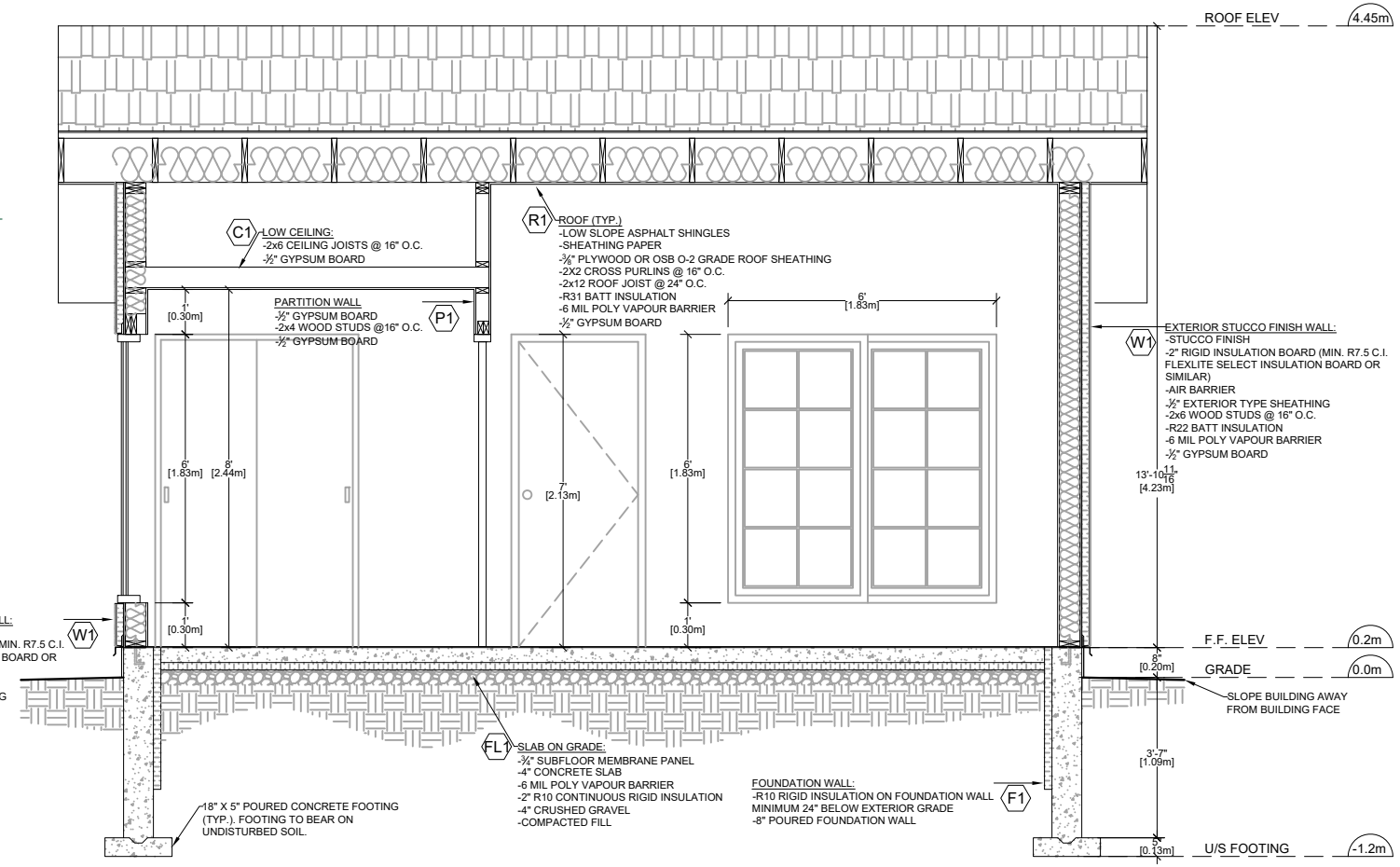
A3 ROOF DETAIL AT EAVE
A301 SCALE 3/4" = 1'-0"



A4 ROOF DETAIL AT PEAK
A301 SCALE 3/4" = 1'-0"



A2 CLADDING DETAIL AT FOUNDATION
A301 SCALE 3/4" = 1'-0"



B-B LONGITUDINAL SECTION
A301 SCALE 3/4" = 1'-0"

project	RH-ARU STUDIO-001
drafted by	City of Richmond Hill
reference no.	RM-26-00006
date	March 9 2026
scale	varies
sheet title	SECTIONS AND DETAILS
sheet no.	A301

Residential Mechanical Ventilation Design Summary

for design and performance of residential ventilation systems to OBC 2024 - 9.32

1. Location

City of Richmond Hill

2. Combustion Appliances

- Direct Vent
- Induced Draft
- Natural Draft
- Solid Fuel Appliances
- No Combustion Appliances

3. Heating System

- Forced Air
- Non-Forced Air
- Gas
- Propane
- Oil
- Electricity
- Other

3. Distribution System

- Furnace
- Inline Fan
- HRV / ERV

4. Principal Ventilation System Design Option

- Exhaust only forced air distribution system (circ. fan at least 5 times the capacity of the principal exhaust)
- Balanced no heat recovery
- HRV / ERV with extended exhaust
- HRV / ERV with simplified exhaust
- HRV / ERV with full ducting / not coupled to forced air
- HRV / ERV with no supplemental fans (high speed must be at least 2.5 times the principal exhaust)
- Supplemental fans

5. Principal Ventilation Capacity (PVC)

of Bedrooms: 1 Required Exh Airflow: 32-48 CFM
 Supply Air Required: Yes No
 Mixed Air Temperature Calculation Required: Yes No
 For a System coupled with a Forced Air Furnace:
 Furnace Blower Rate:
 Max Allowable Outdoor Airflow as per NBC 9.32.3.4.(2):

6. Principal Ventilation Fan

HRV / ERV Central Inline Fan Bathroom Fan
 Location: Washroom
 Manufacturer: TBD
 Model: TBD HVI Rated
 Design Airflow: Low: 20 CFM High: 50 CFM
 Sones: 2.5 ESP: 0.4 "w.c.
 55% Sensible Efficiency @ 0° C @ 50 CFM
 50% Sensible Efficiency @ -25° C @ 50 CFM
 (if HRV / ERV is used, the system must also comply with SB-12)

10. Other Ventilation Fans

Location: Kitchen Sones: 3.5
 Manufacturer: TBD
 Model: TBD HVI Rated
 Design Airflow: 100 CFM ESP: 0.25 "w.c.
 No Combustion Appliances Supply Fan for Principal Exhaust
 Circulation Fan Make-up Air Fan for

Energy Efficiency Design Summary: Prescriptive Method (Building Code Part 9, Residential)

Ratio of gross area of windows/sidelights/skylights/glazing in doors and sliding glass doors to the gross area of peripheral walls is not more than 22%

A. Project Information

City of Richmond Hill - Certified Model RM-26-XXXXX [RH-ARU STUDIO-001]

B. Prescriptive Compliance

SB-12 Prescriptive Package: C4 Table: 3.1.1.2.C

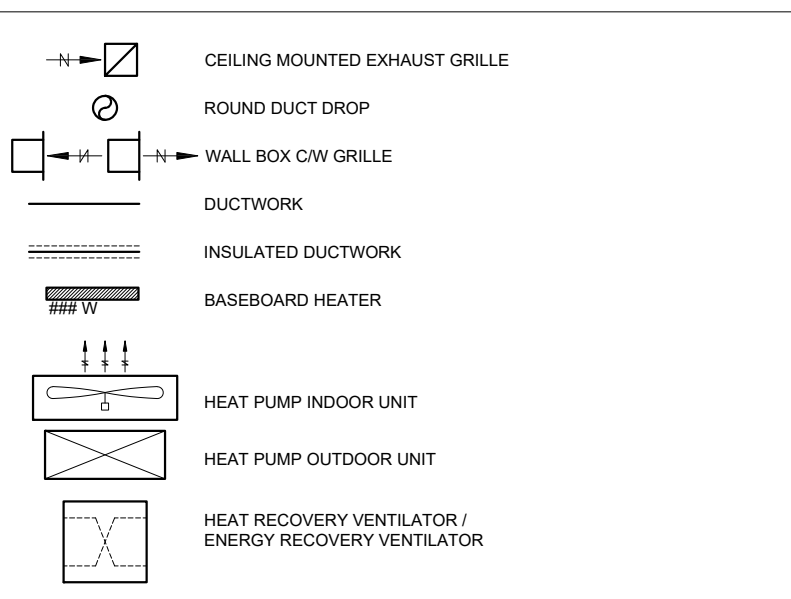
C. Project Design Conditions

Climatic Zone (SB-1):	Heating Equipment Efficiency	Space Heating Fuel Source
<input checked="" type="checkbox"/> Zone 1 (< 5000 degree days)	<input type="checkbox"/> ≥ 92% AFUE	<input type="checkbox"/> Gas <input type="checkbox"/> Propane <input type="checkbox"/> Solid Fuel
<input type="checkbox"/> Zone 2 (≥ 5000 degree days)	<input type="checkbox"/> ≥ 84% < 92% AFUE	<input type="checkbox"/> Oil <input checked="" type="checkbox"/> Electric <input type="checkbox"/> Earth Energy
Ratio of Windows, Skylights & Glass (W, S & G) to Wall Area	Other Building Characteristics	
Area of walls = 831 ft ²	W, S & G % = 9.6%	<input type="checkbox"/> Log/Post&Beam <input type="checkbox"/> ICF Above Grade <input type="checkbox"/> ICF Basement
Area of W, S & G = 80.3 ft ²	Utilize window averaging: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Slab-on-ground <input type="checkbox"/> Walkout Basement
		<input type="checkbox"/> Air Conditioning <input type="checkbox"/> Combo Unit
		<input checked="" type="checkbox"/> Air Sourced Heat Pump (ASHP)
		<input type="checkbox"/> Ground Sourced Heat Pump (GSHP)

D. Building Specifications

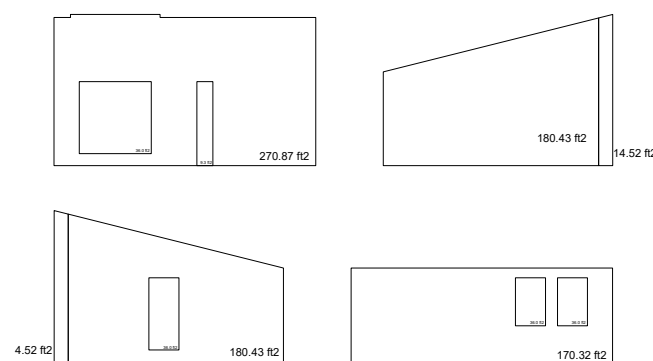
Building Component	Minimum RSI / R values or Maximum U-Value		Building Component	Efficiency Ratings
Thermal Insulation	Nominal	Effective	Windows & Doors	
Ceiling with Attic Space	50	49.23	Windows/Sliding Glass Doors	U-0.28
Ceiling without Attic Space	31	27.65	Skylights/Glazed Roofs	U-0.49
Exposed Floor	N/A	N/A	Mechanicals	
Walls Above Grade	22+7.5ci	23.9	Heating Equip.(AFUE)	-
Basement Walls	N/A	N/A	HRV Efficiency (SRE% at 0o C)	55%
Slab (all >600mm below grade)	N/A	N/A	DHW Heater (EF)	-
Slab (edge only ≤600mm below grade)	10		DWHR (CSA B55.1 (min. 42% efficiency))	- #Showers: -
Slab (all ≤600mm below grade, or heated)	10	11.13	Combined Heating System	-

ANNOTATION LEGEND - MECHANICAL



MECHANICAL DRAWING NOTES

- THE AIR SOURCE HEAT PUMP MINIMUM HEATING SEASON PERFORMANCE FACTOR TO BE 71.
- ALL ELECTRICAL HEATERS TO BE COMPLETE WITH BUILT-IN THERMOSTAT.

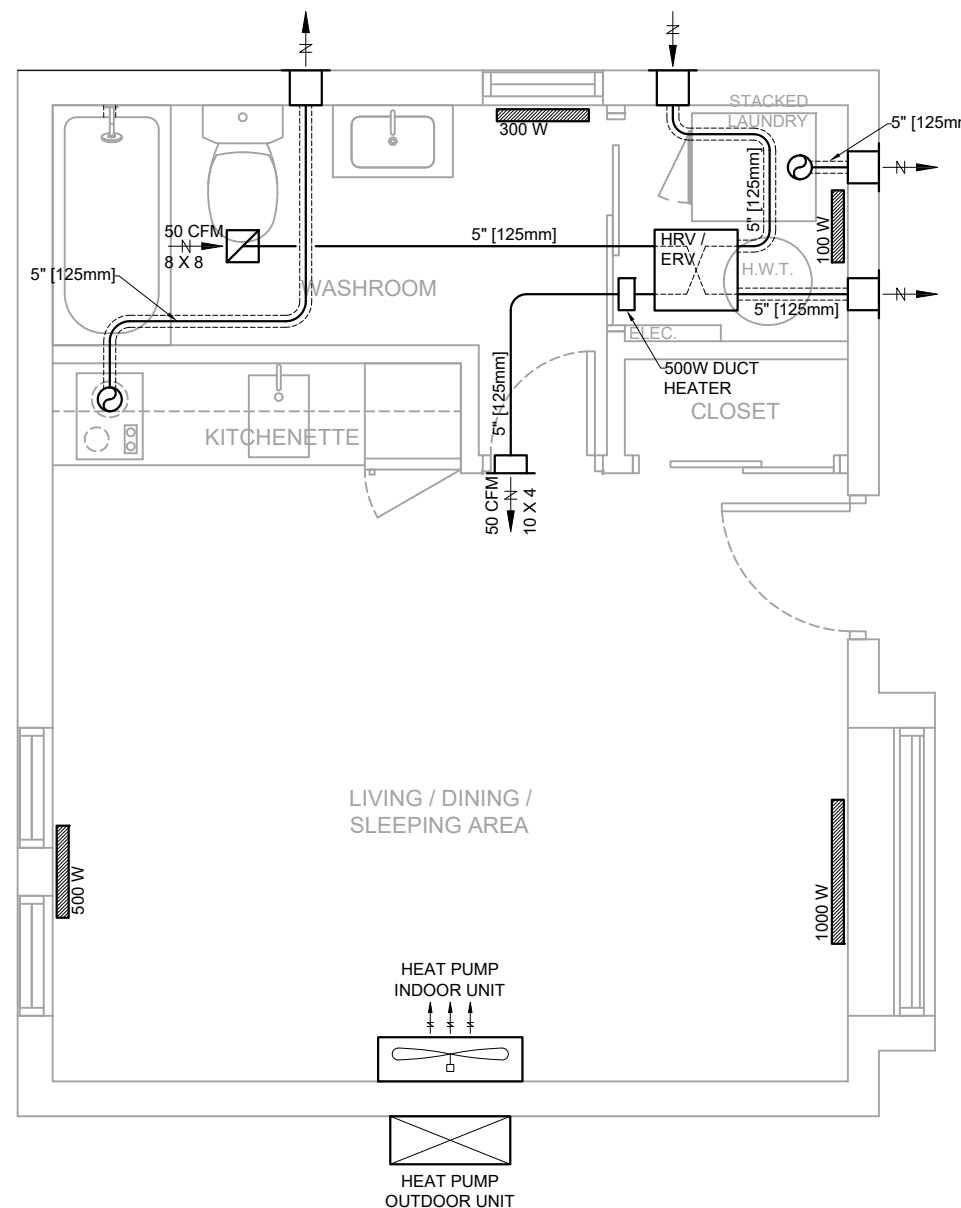


TOTAL AREA OF WALLS:
 270.87+170.32+180.43+14.52+180.43+14.52
 = 831.09 ft²

TOTAL AREA OF WINDOW OPENINGS:
 36+10+10+15+9.3 = 80.3 ft² (9.6%)

WINDOW TO WALL RATIO

SCALE 1/4" = 1'-0"



MECHANICAL PLAN

SCALE 1/4" = 1'-0"

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project

RH-ARU
STUDIO-001

drafted by City of Richmond Hill

reference no. RM-26-00006

date March 9 2026

scale 1/4" = 1'-0"

sheet title

MECHANICAL PLAN
AND NOTES

sheet no.

M101