

# Environmental Noise Feasibility Study

## Crescent Acres

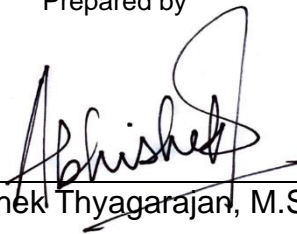
### Proposed Residential Development Fort Erie, Ontario

October 6, 2022  
Project: 122-0133

Prepared for

### Mountainview Building Group

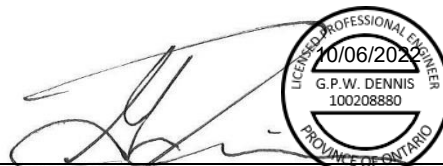
Prepared by



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Reviewed by



The seal is circular with the text "LICENSED PROFESSIONAL ENGINEER" around the top edge, "PROVINCE OF ONTARIO" around the bottom edge, and "10/06/2022", "G.P.W. DENNIS", and "100208880" in the center.

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Greg Dennis, M.Eng., P.Eng.



A stylized logo consisting of a downward-pointing chevron shape with a gradient from dark grey to light grey.

**VALCOUSTICS**

*Canada Ltd.*

## Version History

Version #	Date	Comments
1.0	October 6, 2022	Final – Issued for use

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# Environmental Noise Feasibility Study

## Crescent Acres

### Proposed Residential Development

Fort Erie, Ontario

#### **EXECUTIVE SUMMARY**

Valcoustics Canada Ltd. (VCL) was retained to prepare an Environmental Noise Feasibility Study for the proposed residential development to support the Rezoning and Draft Plan of Subdivision application to the Town of Fort Erie and the Regional Municipality of Niagara.

The site is located southeast of the intersection of Garrison Road and Crescent Road in the Town of Fort Erie. The proposed development will consist of 145 townhouse units (Blocks 1-4, 7-10 and 12-29), 8 semi-detached dwellings (Blocks 5-6 and 11-12), 67 single family dwellings (Lots 1-67), a watercourse and a stormwater management facility.

The transportation noise source with potential for impact on the proposed development is road traffic on Garrison Road. The sound levels on site have been determined and compared with the applicable Ministry of the Environment, Conservation and Parks (MECP) noise guideline limits to determine the need for noise mitigation.

To meet the applicable transportation noise source guideline limits:

- Blocks 1 to 5 require the provision for installing air conditioning at a later date. For low density development, this usually takes the form of a ducted forced air heating system suitably sized to accommodate air conditioning;
- Exterior wall and window construction meeting the minimum non-acoustical requirements of the OBC will be sufficient to meet the indoor noise levels of the MECP for all units in the development; and
- A 1.8 m high sound barrier is required at the rear yards of Blocks 1 to 5. See Figure 2.

The stationary noise sources in the vicinity of the site with the potential to impact the proposed development are the commercial plaza and Tim Hortons drive-thru restaurant located on the south side of Garrison Road, directly north of the site. A detailed assessment of the noise impact of these facilities onto the subject site is provided in Section 5.0.

The predicted unmitigated sound levels due to noise sources at the Tim Hortons drive-thru marginally exceed the noise guideline limits at the subject site. With the construction of the 1.8 m

high sound barrier at the rear yards of Block 1 to 5 (as noted above), the applicable guideline limits will be met at all noise sensitive receptors on the site.

The predicted unmitigated sound levels due to noise sources at the Commercial Plaza meet the noise guideline limits at the subject site. As such, mitigation is not required for this facility.

## **1.0 INTRODUCTION**

### **1.1 SCOPE**

VCL was retained to prepare an Environmental Noise Feasibility Study for the proposed residential development in support of the Rezoning and Draft Plan of Subdivision application submissions to the Town of Fort Erie and the Regional Municipality of Niagara.

The potential sound levels and noise mitigation measures needed for the proposed development to comply with the MECP noise guideline requirements are outlined herein.

### **1.2 THE SITE AND SURROUNDING AREA**

The site is located southeast of the intersection of Garrison Road and Crescent Road in the Town of Fort Erie. The site is bounded by:

- Highway commercial development (including a single storey commercial plaza, Tim Hortons and a vacant lot) with Garrison Road beyond, to the north;
- Open space, with single family dwellings and commercial uses beyond, to the east;
- Open space and existing residential development to the south; and
- Crescent Road and existing single-family dwellings to the west.

A Key Plan is included as Figure 1.

This study is based on the Draft Plan of Subdivision prepared by Upper Canada Consultants dated September 20, 2022. Draft Plan of Subdivision is included as Figure 2.

### **1.3 THE PROPOSED DEVELOPMENT**

The site is located southeast of the intersection of Garrison Road and Crescent Road in the Town of Fort Erie. The proposed development will consist of 145 townhouse units (Blocks 1-4, 7-10 and 12-29), 8 semi-detached dwellings (Blocks 5-6 and 11-12), 67 single family dwellings (Lots 1-67), a watercourse and a stormwater management facility.

All dwelling units will be 2-storeys in height and provided with rear yard outdoor amenity areas.

## 2.0 NOISE SOURCES

### 2.1 TRANSPORTATION NOISE SOURCES

The transportation noise source with the potential for impact on the proposed development is road traffic on Garrison Road. All other roadways are expected to have lower traffic volumes or are further setback such that noise impact is not expected at the proposed development

Road traffic volumes for Garrison Road, applicable to the year 2021, was obtained from the Regional Municipality of Niagara in the form of a 24-hour Automatic Traffic Recorder (ATR) counts. In accordance with the Regional Municipality of Niagara requirements, the 24-hour traffic volume was escalated to a 20-year design condition (year 2042) using a 2% growth rate. Medium and heavy truck percentages as well as day/night split were obtained from the ATR counts.

The traffic data is provided in Appendix A and summarized in Table 1.

**TABLE 1 ROAD TRAFFIC DATA**

Roadway	Year	24-hour Volumes	% Trucks		Speed Limit (kph)	Day/Night Split (%)
			Medium	Heavy		
Garrison Road	2021 (2042)	14 417 (21 423)	2	2	60	95/5

### 2.2 STATIONARY NOISE SOURCES

A commercial plaza is located directly north of the site, at 1201 Garrison Road. Tenants include a bank with ATM drive-thru (Pen Financial Credit Union), an insurance provider (The Cooperators Financial Services) and a convenience store. Noise sources at the facility are the rooftop mechanical equipment and vehicle activity at the ATM drive-thru. VCL staff visited the plaza on April 20, 2022 to complete sound measurements and observations. An assessment of the noise impact of this facility onto the subject site is provided in Section 5.0.

A Tim Hortons drive-thru restaurant is also located directly north of the site, at 1167 Garrison Road, east of the commercial plaza. VCL staff were not able to access this facility during the site visit to the area. Noise sources at this building are expected to be the rooftop mechanical equipment, vehicle activity at the drive-thru and noise from the drive-thru order board. An assessment of the noise impact of this restaurant onto the subject site was completed based on similar projects completed by VCL. See Section 5.0.

There is a commercial plaza at the southwest corner of Garrison Road and Crescent Acres, approximately 50 m northwest of the subject site. Tenants include a paint retailer, a convenience store, a vitamins/organic foods store and an antique store. The only noise sources at this building are expected to be the rooftop mechanical equipment. Based on the distance separation and presence of Garrison Road (which contributes to a higher ambient noise level at the site), significant noise impact from this building is not expected and has not been considered further. This was confirmed by VCL staff during a site visit to the area on April 20, 2022, where noise from this building was not audible at the subject site.

There are single storey commercial uses on the north side of Garrison Road, greater than 100 m from the subject site. The only noise sources at these buildings are expected to be the rooftop mechanical equipment. Based on the setback distance and intervening Garrison Road (which contributes to a higher ambient sound level at the site), significant noise impact from these buildings is not expected and they have not been considered further in the assessment. This was confirmed by VCL staff during a site visit to the area on April 20, 2022, where noise from these buildings was not audible at the subject site

There are two vacant lots along the south side of Garrison Road and directly north of the site (east of Tim Hortons). These lots are zoned C3, which would permit the development of highway commercial uses. Plans for these lots are not available. However, any future development on these lands would need to comply with the applicable MECP noise guidelines, recognizing the surrounding noise sensitive uses (i.e., the subject site). As such, adverse noise impact from these lots is not expected and has not been considered further.

### **3.0 ENVIRONMENTAL NOISE GUIDELINES**

#### **3.1 MECP NOISE GUIDELINES**

The applicable noise guidelines for new residential development are those in MECP Publication NPC-300, “Environmental Noise Guideline, Stationary and Transportation Sources - Approval and Planning”.

The environmental noise guidelines of the MECP, as provided in Publication NPC-300, are discussed briefly below and summarized in Appendix B.

##### **3.1.1 Transportation Noise Sources**

###### **3.1.1.1 Architectural Elements**

In the daytime, the indoor criterion for road traffic noise is  $L_{eq\ Day}^{(1)}$  of 45 dBA for sensitive spaces such as living/dining rooms, dens and bedrooms. At night, the indoor criterion for road traffic noise is  $L_{eq\ Night}^{(2)}$  of 45 dBA for sensitive spaces such as living/dining rooms and dens and 40 dBA for bedrooms.

The architectural design of the building envelope (walls, windows, etc.) must provide adequate sound isolation to achieve these indoor sound level limits.

###### **3.1.1.2 Ventilation**

In accordance with the MECP noise guideline for road traffic sources, if the daytime sound level,  $L_{eq\ Day}$ , at the exterior face of a noise sensitive window is greater than 65 dBA, means must be provided so that windows can be kept closed for noise control purposes and central air conditioning is required. For daytime sound levels between 56 dBA and 65 dBA inclusive, there need only be the provision for adding air conditioning at a later date. A warning clause advising the occupant of the potential interference with some activities is also required. At nighttime,

(1) 16-hour energy equivalent sound level (0700-2300 hours).  
(2) 8-hour energy equivalent sound level (2300-0700 hours).

air conditioning would be required when the sound level exceeds 60 dBA ( $L_{eq\ Night}$ ) at a noise sensitive window (provision for adding air conditioning is required when greater than 50 dBA).

### 3.1.1.3 Outdoors

For outdoor amenity areas (“Outdoor Living Areas” - OLA’s), the guideline is  $L_{eq\ Day}$  of 55 dBA, with an excess not exceeding 5 dBA considered acceptable if it is technically not practicable to achieve the 55 dBA objective, providing warning clauses are registered on title. Note that a balcony is not considered an OLA, unless it is:

- the only OLA for the occupant;
- at least 4 m in depth; and
- unenclosed.

### 3.1.2 Stationary Noise Sources

The site and surrounding area are considered a Class 1 area, where the background sound level is dominated by the “urban hum” during all hours of the day and night. Urban hum is sounds from the activities of people, such as road traffic.

For stationary noise sources in a Class 1 area, the criteria are one-hour  $L_{eq}$  of 50 dBA during the daytime and evening (0700 to 2300 hours) and 45 dBA during the nighttime (2300 to 0700 hours), or the existing ambient sound level due to road traffic, whichever is higher. The criteria apply both at the exterior plane of window during the daytime, evening and nighttime, and at an Outdoor Point of Reception (OPOR) during the daytime and evening (there is no OPOR criterion during the nighttime period).

The guideline limits apply to habitable spaces such as living/dining/family rooms and sleep areas. No indoor sound level guidelines are provided for stationary sources.

## 3.2 NIAGARA REGION

Niagara Region noise guidelines are contained in a Public Works Department Policy Manual, Regional Road Traffic Noise Control, dated November 9, 2006.

The noise requirements for new developments are similar to the MECP requirements described above. Note that Niagara Region requires traffic volumes to be projected to a design condition 20 years in the future.

## 4.0 NOISE IMPACT ASSESSMENT – TRANSPORTATION SOURCES

### 4.1 ASSESSMENT METHOD

Using the road traffic data in Table 1, the sound levels, in terms of  $L_{eq\ Day}$  and  $L_{eq\ Night}$ , were determined using STAMSON V5.04 – ORNAMENT, the computerized road traffic noise prediction model of the MECP.

The daytime and nighttime sound levels at the building facades were assessed at heights of 4.5 m above grade, representing the top floor bedroom windows for the two-storey buildings (the

worst-case locations). The daytime OLA sound levels at the rear yard outdoor amenity areas were calculated at a standing height of 1.5 m above grade, 3 m from the rear walls and aligned with the midpoint of the applicable facade.

Inherent screening of each building face due to its orientation to the noise source as well as that provided by the subject development itself was taken into account. Screening provided by existing development in the area was not included in the calculations.

The assessment was based on the sample townhouse block Floor Plan and Elevation Drawings prepared by Mountainview Building Group, dated March 17, 2022. The Floor Plan and Elevation Drawings are included as Appendix E.

The location of the receptor points used in this study are shown in Figure 2.

## 4.2 RESULTS

At the building facades, the highest predicted daytime and nighttime sound levels are 62 dBA and 52 dBA, respectively, and occur at the north facades of Blocks 1 to 5.

The highest unmitigated daytime OLA sound level is predicted to be 56 dBA and occurs at the rear yards of Blocks 1 to 5.

Table 2 summarizes the predicted sound levels outdoors at specific locations. A sample calculation is included in Appendix C.

**TABLE 2 PREDICTED UNMITIGATED SOUND LEVELS**

Location <sup>(1)</sup>	Source	Distance (m) <sup>(2)</sup>	L <sub>eq</sub> Day (dBA)	L <sub>eq</sub> Night (dBA) <sup>(3)</sup>
R1 – Block 1 North Facade	Garrison Road	74	62	52
R2 – Block 6 East Facade	Garrison Road	97	53	43
R3 – Lot 1 West Facade	Garrison Road	130	54	46
R4 – Block 12 North Facade	Garrison Road	179	51	41
OLA1 – Block 1 Rear Yard OLA	Garrison Road	71	56	-
OLA2 – Block 6 Rear Yard OLA	Garrison Road	99	53	-
OLA3 – Block 12 Rear Yard OLA	Garrison Road	179	50	-

**Notes:**

- (1) See Figure 2 for receptor locations.
- (2) Distance indicated is taken from the centreline of the noise source to the point of reception.
- (3) OLA sounds levels are not applicable during nighttime hours (2300 to 0700 hours).

### 4.3 NOISE ABATEMENT REQUIREMENTS

The noise control measures can generally be classified into two categories which are interrelated, but which can be treated separately for the most part:

- a) Architectural elements to achieve acceptable indoor noise guidelines for transportation sources; and
- b) Design features to protect the OLA's.

Noise abatement requirements are summarized on Figure 2 and in Table 5 along with the notes to Table 5 (See Section 6).

#### 4.3.1 Indoors

##### 4.3.1.1 Architectural Elements

The indoor noise level guidelines for the transportation sources can be achieved by using appropriate construction for exterior walls, windows and doors. In determining the worst-case architectural requirements for the residential units, the exterior wall and window to floor areas for the worst-case living rooms and bedrooms were calculated from the Floor Plans and Elevation Drawings.

Based on the predicted sound levels, exterior wall and window construction meeting the minimum non-acoustic requirements of the OBC are sufficient to meet the indoor noise level requirements at all dwellings units on the site.

##### 4.3.1.2 Ventilation Requirements

Based on the predicted sound levels, Blocks 1 to 5 require the provision for installing air conditioning at a later date. For low density development, this normally takes the form of a ducted ventilation system suitably sized to accommodate the addition of central air conditioning.

There are no ventilation requirements for the remaining dwellings in the development.

#### 4.3.2 Outdoors

The unmitigated daytime OLA sound levels at the rear yards of Blocks 1 to 5 exceed the 55 dBA design objective of the MECP. Thus, sound barriers are required.

To meet the 55 dBA limit, a 1.8 m high sound barrier is required at the rear yards of Blocks 1 to 5. The sound barrier orientation is shown in Figure 2.

Sound barriers must be of solid construction, having a minimum face density of 20 kg/m<sup>2</sup> with no gaps, cracks or holes. A variety of materials are available, including concrete, masonry, glass, wood, specialty composite materials, or a combination of the above.

#### 4.3.3 Warning Clauses

Warning clauses are a tool to inform prospective owners/occupants of potential annoyance due to existing noise sources. Where the guideline sound level limits are exceeded, appropriate warning clauses should be registered on title or included in the development agreement that is registered on title. The warning clauses should also be included in agreements of Offers of



Purchase and Sale and lease/rental agreements to make future occupants aware of the potential noise situation.

Table 3 and the notes to Table 3 summarize the warning clauses for the site.

**TABLE 3 NOISE ABATEMENT MEASURES**

Location	Air Conditioning <sup>(1)</sup>	Exterior Wall	Exterior Window	Sound Barrier <sup>(2)</sup>	Warning Clauses <sup>(3)</sup>
Blocks 1 to 5	Provision for adding	OBC	OBC	1.8 m	A + B + C + D
All remaining dwellings	No special acoustical requirements				

**Notes:**

- (1) Central air conditioning allows windows to remain closed for noise control purposes. Provision for adding air conditioning typically takes the form of a ducted ventilation system suitably sized to permit the addition of central air conditioning by the occupant.
- (2) Acoustic barriers must be of solid construction, having a minimum face density of 20 kg/m<sup>2</sup> with no gaps, cracks or holes. A variety of materials are available, including concrete, masonry, glass, wood, specialty composite materials, or a combination of the above.
- (3) Warning clauses to be registered on title and be included in Offers of Purchase and Sale for designated building units/lots/townhouse units:
  - A. "Purchasers/tenants are advised that despite the inclusion of noise control features in the development and within the building units, sound levels due to increasing road and rail traffic may occasionally interfere with some activities of the dwelling occupants as the sound level may exceed the noise criteria of the Ministry of the Environment, Conservation and Parks and/or the municipality."
  - B. "This dwelling unit has been designed with the provision for adding central air conditioning at the occupant's discretion. Installation of central air conditioning by the occupant will allow windows and exterior doors to remain closed, thereby ensuring that the indoor sound levels are within the sound level limits of the Ministry of the Environment, Conservation and Parks and/or the municipality."
  - C. "Purchasers/occupants are advised that the acoustical berm and/or barrier as installed shall be maintained, repaired or replaced by the owner. Any maintenance, repair or replacement shall be with the same material, to the same standards, and having the same colour and appearance of the original."
  - D. "Purchases/tenants are advised that due to the proximity to commercial establishments, noise from these facilities may at times be audible."
- (4) All exterior doors shall be fully weather-stripped.

## 5.0 NOISE IMPACT ASSESSMENT – STATIONARY NOISE

### 5.1 NOISE SOURCES

The stationary noise sources in the vicinity of the site with the potential for noise impact at the development is the Tim Hortons and commercial plaza located along Garrison Road, directly north of the site.

VCL staff visited the site and surrounding area on April 20, 2022 and completed sound measurements and observations at the commercial plaza. VCL staff were not able to access Tim Hortons restaurant during the visit. As such, an assessment of the noise impact from the restaurant was based on similar projects completed by VCL.

The noise sources are shown in Figures 3 to 5. Source sound level data is provided in Appendix D.

### 5.1.1 Commercial Plaza

The commercial plaza is located at 1201 Garrison Road, directly north of the proposed development. Tenants at the facility include a bank (Pen Financial Credit Union), an insurance provider (The Cooperators Financial Services) and a convenience store. Hours of operation at the convenience store are from 0630 hours to 2200 hours, the insurance provider operates from 0900 to 1700 hours and the bank operates from 0900 to 1800 hours. There is an ATM drive-thru along the west side of the bank that is expected to operate 24 hours a day, 7 days a week.

The noise sources at the facility include five (5) rooftop HVAC units, one (1) condenser servicing the convenience store and vehicle activity at the drive-thru ATM.

Operations for the drive-thru ATM were based on previous projects completed by VCL. It is assumed that during the busiest daytime/evening hour, cars will arrive/depart from the drive thru ATM continuously, with up to 2 cars forming a queue. During the busiest nighttime hour, 2 cars will arrive/depart from the drive thru, with no cars in queue. Each transaction at the ATM takes approximately 5 minutes.

Noise source data for the rooftop units was based on manufacturer's product data. Noise source data for the idling vehicles as based on a VCL database.

### 5.1.2 Tim Hortons

The Tim Hortons drive-thru restaurant is located at 1167 Garrison Road, directly north of the proposed development, east of the commercial plaza. The food retailer operates from 0500 hours to 2200 hours, 7 days a week. Noise sources at this building are the rooftop mechanical equipment, vehicle activity at the drive-thru and noise from the drive-thru order board.

Operating scenarios for the drive-thru were based on previous projects completed by VCL. It is assumed that in the busiest daytime/evening hour, 140 orders could occur and during the busiest nighttime hour (0600 to 0700 hours), 120 orders could occur. The queue would be full of cars for all scenarios. Each order takes approximately 20 seconds, with the customer speaking for 10 seconds and the outdoor ordering board speaker operating for 10 seconds.

The number of rooftop mechanical units at the building were based on google earth imagery and observations during the site visit to the area. Rooftop equipment at the restaurant include two (2) HVAC units, one (1) condenser and one (1) exhaust fan.

The size of the rooftop HVAC units was determined based on the assumed total cooling requirement of the building divided by the number of rooftop units. The total cooling capacity in tons was determined based on the approximate (generic) relationship of one ton of cooling per 350 ft<sup>2</sup> of floor area. Manufacturer's sound data for rooftop units meeting the tonnage requirement was used in the assessment.

Sound data for the condenser, exhaust fan and the drive-thru order board were based on similar projects completed by VCL.

## 5.2 OPERATING SCENARIOS

The MECP noise guidelines require assessing the noise impact during the “predictable worst case” hour. The worst-case operating scenarios for the two facilities are:

### 5.2.1 Commercial Plaza

Two operating scenarios at the commercial plaza were analysed, representing a peak daytime/evening hour (0700 to 2300 hours) and a peak nighttime hour (2300-0700 hours). The operations are described as:

- Peak Daytime/Evening hour (any hour between 0700 to 2300 hour):
  - All rooftop units operate for the full hour;
  - 1 car at the ATM drive thru for the entire hour, and a second car in queue for the entire hour.
- Peak Nighttime hour (any hour between 2300 to 0700 hour):
  - All rooftop units operate at 50% duty cycle (i.e. 30 minutes out of the hour).
  - 10 minutes of car idling next to the ATM in the drive thru, representing 2 cars idling for 5 minutes each.

### 5.2.2 Tim Hortons

The drive-thru operations are generally related to vehicle activity on the nearby roadways. Typically, these types of facilities become busy in the early morning hours (0600 to 0700) and would normally reach peak capacity in the hours around 0700 to 0900 hours. At other hours, usage is expected to be less.

Two operating scenarios were analysed representing a peak daytime/evening hour (0700 to 2300 hour) and a peak nighttime hour (2300-0700 hours). The operation are described as:

- Peak Daytime/Evening hour between 0700 and 0800:
  - Queue full (12 cars) for the full hour, up to the drive-thru window, with 140 orders/hour
  - Order board operating for 23.3 min/hour (10 seconds per order)
  - Rooftop units on 100% of the time
- Peak Nighttime hour between 0600 to 0700:
  - Queue full (12 cars) for the full hour, up to the drive-thru window, with 120 orders/hour
  - Order board operating for 20 min/hour (10 seconds per order)
  - Rooftop HVAC units and condenser on 50% of the time (30 minutes of the hour); and
  - Exhaust fan on 100% of the time.

### 5.3 NOISE SENSITIVE RECEPTORS

Six (6) noise sensitive receptors were used in the assessment. The receptors are described as:

- POW\_1 and OPOR\_1 – Representing the north facade and outdoor amenity area of Block 1, nearest to the commercial plaza.
- POW\_2 and OPOR\_2 – Representing the north facade and outdoor amenity area of Block 2, centrally located between the commercial plaza and Tim Hortons restaurant; and
- POW\_3 and OPOR\_3 – representing the north facade and outdoor amenity area of Block 3, nearest to the Tim Hortons drive-thru restaurant.

Receptors representing the POW were assessed at a height of 4.5 m above grade and the OPOR receptors were modelled at a height of 1.5 m above grade, at the closest point in the rear yard to the stationary noise source.

The POW receptors represent the worst-case locations, as determined using the building evaluation features in CadnaA, where the highest sound level at any storey, at multiple points on the facade is calculated.

Figures 3 to 5 show the locations of the assessment receptors.

#### 5.3.1 Applicable Guideline Limits

The minimum exclusion limits were used to assess the noise impact from the commercial plaza onto the subject site. This is conservative.

The drive-thru operations at the Tim Hortons are generally related to vehicle activity on the nearby roadways. During peak operations at the drive-thru restaurant, road traffic along Garrison Road would be higher, and the ambient sound level at the site would be greater than the minimum exclusion limits.

The ATR study for Garrison Road, as described in Section 2.1, was used to determine the ambient sound level at the subject site during peak hours of operation at Tim Hortons.

The hourly traffic volumes for the applicable peak hours at the Tim Hortons drive-thru are:

- Daytime/Evening: 0700 to 0800 hours, where 4.0% of the daily volume occur; and
- Nighttime: 0600 to 0700 hours, where 2.0% of the daily volume occurs.

Minimum ambient sound levels at the receptors were predicted using the CadnaA implementation of the RLS-90 traffic noise model. This is considered conservative as RLS-90 predicts sound levels that are typically lower than those predicted using the MECP ORNAMENT/STAMSON method.

Tables 4 to 6 show the applicable guideline limits at each receptor.

### 5.4 ANALYSIS METHOD

A 3-D acoustic model of the closest facades in the proposed development along with the stationary sources was developed using CadnaA V2021 MR2 environmental noise modelling

software. The software uses the protocol of ISO standard 9613-2 “Acoustics – Attenuation of Sound During Propagation Outdoors” to predict sound levels at receiver locations. The model accounts for distance, atmospheric absorption and ground attenuation. The sound level from all relevant sources (hourly  $L_{eq}$ ) was determined for each receptor position for the above operating scenarios.

- Hard ground ( $G = 0$ ) was used for the hard surfaces, and soft ground ( $G=1$ ) was used elsewhere.
- Two orders of sound reflection from the building facades were included in the acoustical model.
- The topography of the area was assumed to be flat.
- There is an existing 2.8 m high acoustic barrier along the south side of the Tim Hortons drive thru, as well as a 1.5 m high rooftop sound barrier around the condenser on the commercial plaza, which were included in the assessment.

## 5.5 PREDICTED UNMITIGATED SOUND LEVELS

### 5.5.1 Commercial Plaza

Table 4 and Figure 3 show the predicted sound levels at the noise sensitive receptors on the subject site due to operations at the commercial plaza.

**TABLE 4 PREDICTED SOUND LEVELS (DBA) - UNMITIGATED – COMMERCIAL PLAZA**

Receptor	Predicted Sound Levels		Applicable Guideline Limit		Meets Limit?
	Day/Eve (0700 to 2300 hours)	Night (2300 to 0700 hours)	Day/Eve (0700 to 2300 hours)	Night (2300 to 0700 hours)	
POW_1	48	45	50	45	Yes
POW_2	48	45	50	45	Yes
POW_3	44	41	50	45	Yes
OPOR_1	48	-	50	-	Yes
OPOR_2	49	-	50	-	Yes
OPOR_3	46	-	50	-	Yes

Notes:

- (1) Day/Eve = 0700 to 2300 hours, Night = 2300 to 0700 hours
- (2) Guideline limits defined by the MECP minimum exclusions limits for a Class 1 area.

As shown in Table 4 and Figure 3, the predicted unmitigated sound levels from the noise sources at the commercial plaza meet the MECP noise guideline limits at the subject site. As such, mitigation is not required for these sources.

### 5.5.2 Tim Hortons

Table 5 and Figure 4 show the predicted sound levels at the noise sensitive receptors on the subject site due to operations at the Tim Hortons. As shown, the predicted sound levels marginally exceed the guideline limit at OPOR\_3.

**TABLE 5 PREDICTED SOUND LEVELS (DBA) - UNMITIGATED – TIM HORTONS**

Receptor	Predicted Sound Levels		Applicable Guideline Limit <sup>(2)</sup>		Meets Limit?
	Day/Eve	Night	Day/Eve	Night	
POW_1	44	43	50	45	Yes
POW_2	51	50	55 <sup>(3)</sup>	53 <sup>(3)</sup>	Yes
POW_3	53	52	55 <sup>(3)</sup>	52 <sup>(3)</sup>	Yes
OPOR_1	43	-	50	-	Yes
OPOR_2	55	-	56 <sup>(3)</sup>	-	Yes
OPOR_3	56	-	55 <sup>(3)</sup>	-	<b>No</b>

Notes:

- (1) Day/Eve = 0700 to 2300 hours, Night = 2300 to 0700 hours
- (2) Guideline limits defined by the MECP minimum exclusions limits for a Class 1 area, unless otherwise noted.
- (3) Guideline limits defined by ambient road traffic noise.

The excess noise level at OPOR\_3 is caused by idling vehicles at the drive-thru. As such, mitigation is required to address the noise levels from the fast-food restaurant.

## 5.6 MITIGATION REQUIREMENTS

### 5.6.1 Tim Hortons

To mitigate the noise levels from the Tim Hortons drive-thru, a 1.8 m high sound barrier is required at the rear yards backing onto the restaurant. This barrier is already required to comply with the transportation noise guideline limits (see Section 4.3.2).

Accounting for the above sound barrier, the predicted sound levels comply with the noise guideline limits at all receptors on the subject site. See Table 6 and Figure 5.

**TABLE 6 PREDICTED SOUND LEVELS (DBA) – MITIGATED – TIM HORTONS**

Receptor	Predicted Sound Levels		Applicable Guideline Limit <sup>(2)</sup>		Meets Limit?
	Day/Eve	Night	Day/Eve	Night	
POW_1	44	43	50	45	Yes
POW_2	51	50	55 <sup>(3)</sup>	53 <sup>(3)</sup>	Yes
POW_3	53	52	55 <sup>(3)</sup>	53 <sup>(3)</sup>	Yes
OPOR_1	40	-	50	-	Yes
OPOR_2	48	-	54 <sup>(3)</sup>	-	Yes
OPOR_3	51	-	54 <sup>(3)</sup>	-	Yes

**Notes:**

- (1) Day/Eve = 0700 to 2300 hours, Night = 2300 to 0700 hours
- (2) Guideline limits defined by the MECP minimum exclusions limits for a Class 1 area, unless otherwise noted.
- (3) Guideline limits defined by ambient road traffic noise. The mitigation (1.8 m high sound barrier at the rear yards backing onto Tim Hortons) was accounted for in determining the ambient sound level.

## 6.0 CONCLUSIONS

With the incorporation of the recommended noise mitigation measures, the applicable MECP noise guidelines can be met, and a suitable acoustical environment provided for the occupants.

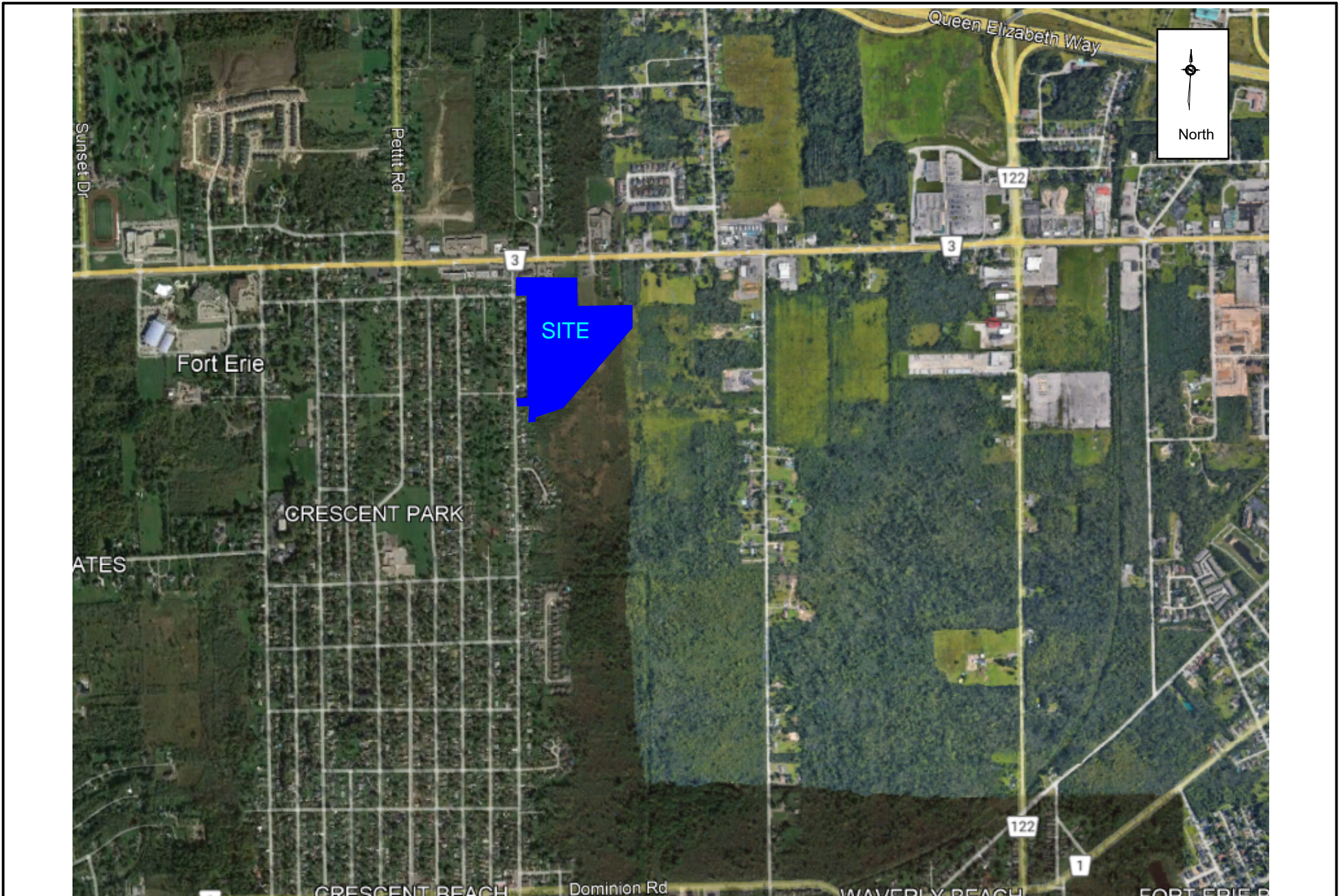
The approvals and administrative procedures are available to ensure that the noise requirements are implemented.


## 7.0 REFERENCES

1. PC STAMSON 5.04, “Computer Program for Road Traffic Noise Assessment”, Ontario Ministry of the Environment.
2. Building Practice Note No. 56: "Controlling Sound Transmission into Buildings", by J. D. Quirt, Division of Building Research, National Council of Canada, September 1985.
3. “Environmental Noise Guideline – Stationary and Transportation Sources, Approval and Planning”, Ontario Ministry of the Environment, Publication NPC-300, October 2013.
4. “Chapter 48 – Noise and Vibration Control”, ASHRAE Handbook – HVAC Applications, 2011.

AT/GD/mv  
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	Title <b>Key Plan</b>	Date <b>Oct 3, 2022</b>	<b>1</b>
	Project Name <b>Crescent Acres - Fort Erie</b>	Project No. <b>122-0133</b>	



**Legend**

- Receptor Location
- ◆ Provision for Adding AC
- ▬ 1.8 m High Acoustic Barrier
- ▬ Property Boundary



Base drawing prepared by Upper Canada Consultants



Title  
**Draft Plan of Subdivision**

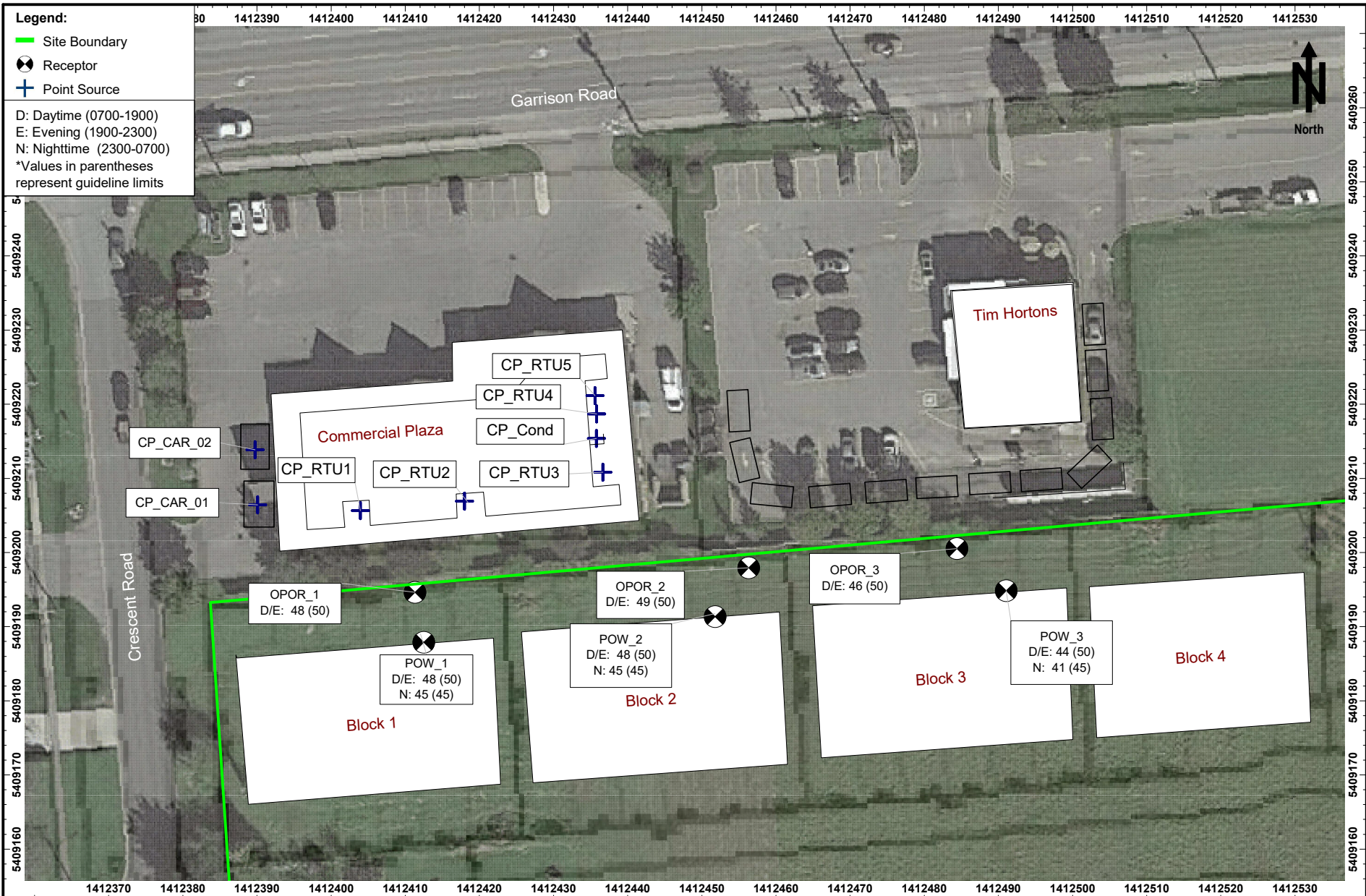
Project Name  
**Crescent Acres - Fort Erie**

Date  
**Oct 3, 2022**

Project No.  
**122-0133**

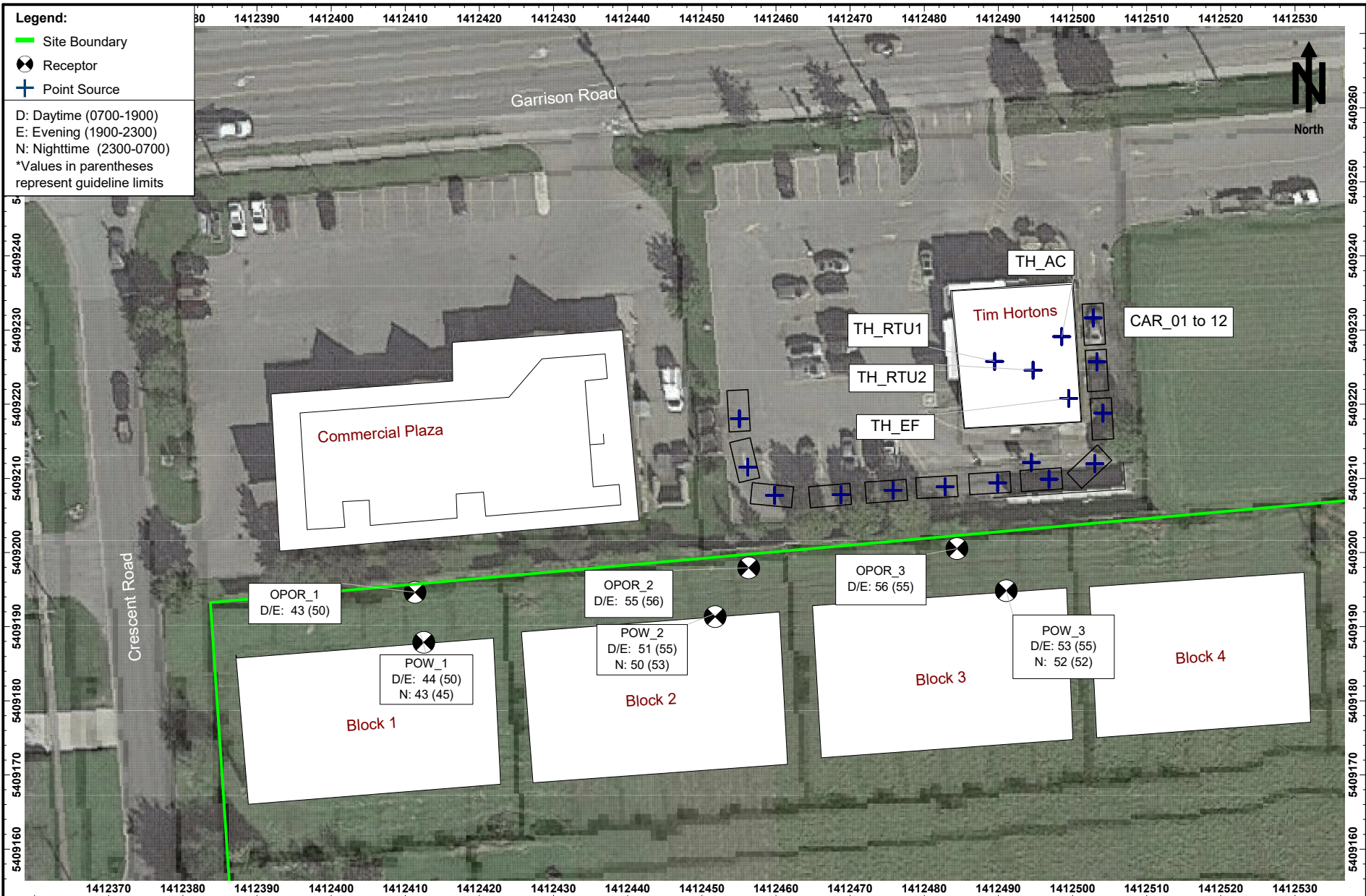
Figure  
**2**





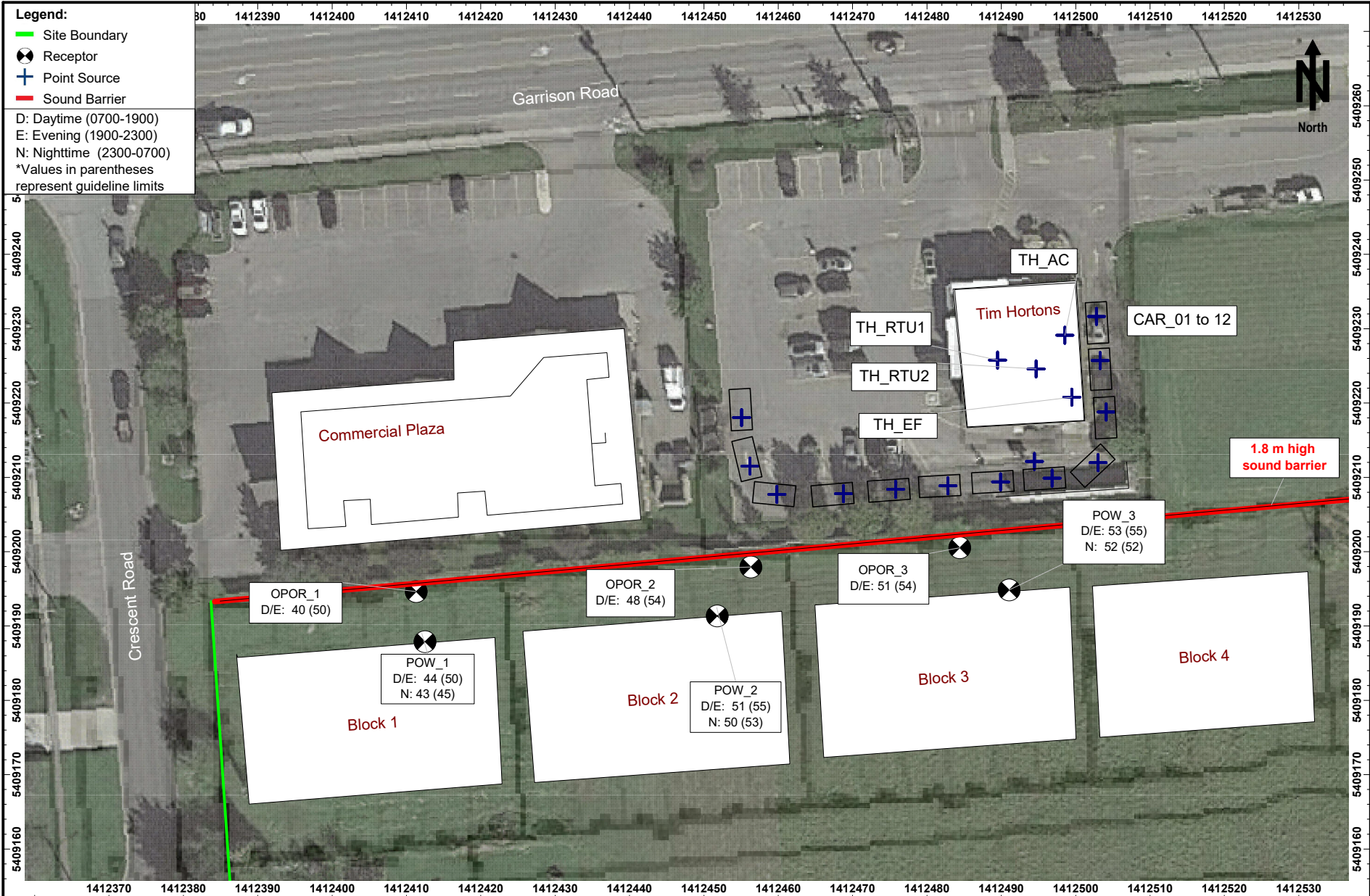
	Title	Date	Figure
	<b>Commercial Plaza - Predicted Sound Levels - Unmitigated (dBA)</b> Project Name <b>Crescent Acres, Fort Erie</b>	<b>Sept 26, 2022</b> Project No. <b>121-0133</b>	<b>3</b>





	Title	Date	Figure
	<b>Tim Hortons - Predicted Sound Levels - Unmitigated (dBA)</b> Project Name <b>Crescent Acres, Fort Erie</b>	<b>Sept 26, 2022</b> Project No. <b>121-0133</b>	<b>4</b>





	<b>Title</b> Tim Hortons - Predicted Sound Levels - Mitigated (dBA)	<b>Date</b> Sept 26, 2022	<b>Figure</b> 5
	<b>Project Name</b> Crescent Acres, Fort Erie	<b>Project No.</b> 121-0133	

# **APPENDIX A**

## **ROAD TRAFFIC DATA**

**MH Corbin Traffic Analyzer Study  
 Computer Generated Summary Report  
 City: Niagara Region  
 Street: 699201 - EB  
 Location: 699201**

A study of vehicle traffic was conducted with the device having serial number 404740. The study was done in the EB lane at 699201 - EB in Niagara Region, ON in county. The study began on 2021-08-24 at 12:00 AM and concluded on 2021-08-25 at 12:00 AM, lasting a total of 24.00 hours. Traffic statistics were recorded in 15 minute time periods. The total recorded volume showed 7,138 vehicles passed through the location with a peak volume of 166 on 2021-08-24 at [02:00 PM-02:15 PM] and a minimum volume of 0 on 2021-08-24 at [03:00 AM-03:15 AM]. The AADT count for this study was 7,138.

**SPEED**

Chart 1 lists the values of the speed bins and the total traffic volume for each bin. At least half the vehicles were traveling in the 70 - 75 KM/H range or lower. The average speed for all classified vehicles was 69 KM/H with 86.00% vehicles exceeding the posted speed of 60 KM/H. 5.78% percent of the total vehicles were traveling in excess of 89 KM/H. The mode speed for this traffic study was 70KM/H and the 85th percentile was 79.61 KM/H.

< to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 to 89	90 to 94	95 to 99	100 to 104	105 to >
115	30	81	197	566	1202	1401	1595	884	583	220	78	60	14	36

CHART 1

**CLASSIFICATION**

Chart 2 lists the values of the classification bins and the total traffic volume accumulated for each bin. Most of the vehicles classified during the study were Passenger Vehicles. The number of Passenger Vehicles in the study was 6798 which represents 96 percent of the total classified vehicles. The number of Small Trucks in the study was 87 which represents 1 percent of the total classified vehicles. The number of Trucks/Buses in the study was 94 which represents 1 percent of the total classified vehicles. The number of Tractor Trailers in the study was 83 which represents 1 percent of the total classified vehicles.

< to 4.9	5.0 to 7.9	8.0 to 9.9	10.0 to 12.9	13.0 to 15.9	16.0 to 18.9	19.0 to 21.9	22.0 to >							
2821	3977	87	94	32	16	19	16							

CHART 2

**HEADWAY**

During the peak traffic period, on 2021-08-24 at [02:00 PM-02:15 PM] the average headway between vehicles was 5.389 seconds. During the slowest traffic period, on 2021-08-24 at [03:00 AM-03:15 AM] the average headway between vehicles was 900 seconds.

**WEATHER**

The roadway surface temperature over the period of the study varied between 23.00 and 50.00 degrees C.

**MH Corbin Traffic Analyzer Study  
 Computer Generated Summary Report  
 City: Niagara Region  
 Street: 699201 - WB  
 Location: 699201**

A study of vehicle traffic was conducted with the device having serial number 406293. The study was done in the WB lane at 699201 - WB in Niagara Region, ON in county. The study began on 2021-08-24 at 12:00 AM and concluded on 2021-08-25 at 12:00 AM, lasting a total of 24.00 hours. Traffic statistics were recorded in 15 minute time periods. The total recorded volume showed 7,279 vehicles passed through the location with a peak volume of 180 on 2021-08-24 at [12:00 PM-12:15 PM] and a minimum volume of 0 on 2021-08-24 at [03:15 AM-03:30 AM]. The AADT count for this study was 7,279.

**SPEED**

Chart 1 lists the values of the speed bins and the total traffic volume for each bin. At least half the vehicles were traveling in the 65 - 70 KM/H range or lower. The average speed for all classified vehicles was 71 KM/H with 85.53% vehicles exceeding the posted speed of 60 KM/H. 13.51% percent of the total vehicles were traveling in excess of 89 KM/H. The mode speed for this traffic study was 65KM/H and the 85th percentile was 84.10 KM/H.

< to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 to 89	90 to 94	95 to 99	100 to 104	105 to >
65	41	131	226	581	1072	1367	1092	1063	603	483	256	116	49	71

CHART 1

**CLASSIFICATION**

Chart 2 lists the values of the classification bins and the total traffic volume accumulated for each bin. Most of the vehicles classified during the study were Passenger Vehicles. The number of Passenger Vehicles in the study was 6878 which represents 95 percent of the total classified vehicles. The number of Small Trucks in the study was 108 which represents 1 percent of the total classified vehicles. The number of Trucks/Buses in the study was 104 which represents 1 percent of the total classified vehicles. The number of Tractor Trailers in the study was 126 which represents 2 percent of the total classified vehicles.

< to 4.9	5.0 to 7.9	8.0 to 9.9	10.0 to 12.9	13.0 to 15.9	16.0 to 18.9	19.0 to 21.9	22.0 to >							
2335	4543	108	104	49	15	32	30							

CHART 2

**HEADWAY**

During the peak traffic period, on 2021-08-24 at [12:00 PM-12:15 PM] the average headway between vehicles was 4.972 seconds. During the slowest traffic period, on 2021-08-24 at [03:15 AM-03:30 AM] the average headway between vehicles was 900 seconds.

**WEATHER**

The roadway surface temperature over the period of the study varied between 24.00 and 48.00 degrees C.

## Time/Class Report

<b>Device ID:</b> 404740		<b>Location:</b> 7871				<b>Raw Count:</b> 7,138				
<b>Operator:</b> MD		<b>Lane:</b> EB				<b>AADT Count:</b> 7,138				
<b>Begin:</b> 08-24-2021 12:00 AM		<b>Street:</b> 699201 - EB				<b>AADT Factor:</b> 1				
<b>End:</b> 08-25-2021 12:00 AM		<b>City:</b> Niagara Region				<b>Speed Limit:</b> 60				
<b>Hours:</b> 24.00		<b>County:</b>								
<b>Period (min):</b> 15		<b>State:</b> ON								
<b>Date</b>	<b>&lt;</b>	<b>16</b>	<b>26</b>	<b>33</b>	<b>43</b>	<b>52</b>	<b>62</b>	<b>72</b>		
<b>And</b>	<b>to</b>	<b>to</b>	<b>to</b>	<b>to</b>	<b>to</b>	<b>to</b>	<b>to</b>	<b>to</b>		
<b>Time Range</b>	<b>15</b>	<b>25</b>	<b>32</b>	<b>42</b>	<b>51</b>	<b>61</b>	<b>71</b>	<b>&gt;</b>		<b>Total</b>
Tue,08-24-2021										
[00:00-00:15]	3	2	1	0	0	0	0	0		6
[00:15-00:30]	1	2	0	0	0	0	0	0		3
[00:30-00:45]	2	0	0	0	0	0	0	0		2
[00:45-01:00]	1	1	0	0	0	0	0	0		2
	<u>7</u>	<u>5</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>		<u>13</u>
[01:00-01:15]	0	2	0	0	0	0	0	0		2
[01:15-01:30]	1	1	0	0	0	0	0	0		2
[01:30-01:45]	2	2	1	0	0	0	0	0		5
[01:45-02:00]	3	0	0	0	0	0	0	0		3
	<u>6</u>	<u>5</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>		<u>12</u>
[02:00-02:15]	0	2	0	0	0	0	0	1		3
[02:15-02:30]	2	1	0	0	0	0	0	0		3
[02:30-02:45]	0	1	0	0	0	0	1	0		2
[02:45-03:00]	1	0	0	0	0	0	0	0		1
	<u>3</u>	<u>4</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>1</u>	<u>1</u>		<u>9</u>
[03:00-03:15]	0	0	0	0	0	0	0	0		0
[03:15-03:30]	0	0	0	0	0	0	0	0		0
[03:30-03:45]	3	1	0	0	0	0	0	0		4
[03:45-04:00]	1	2	0	1	0	0	0	0		4
	<u>4</u>	<u>3</u>	<u>0</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>		<u>8</u>
[04:00-04:15]	1	5	0	0	0	0	0	0		6
[04:15-04:30]	1	2	0	0	0	0	0	0		3
[04:30-04:45]	3	7	0	0	0	0	1	0		11
[04:45-05:00]	10	3	2	0	0	1	0	0		16
	<u>15</u>	<u>17</u>	<u>2</u>	<u>0</u>	<u>0</u>	<u>1</u>	<u>1</u>	<u>0</u>		<u>36</u>
[05:00-05:15]	2	10	0	0	0	1	1	0		14
[05:15-05:30]	3	14	0	0	0	0	0	0		17
[05:30-05:45]	8	24	2	0	0	1	0	0		35
[05:45-06:00]	10	13	0	0	0	0	0	0		23
	<u>23</u>	<u>61</u>	<u>2</u>	<u>0</u>	<u>0</u>	<u>2</u>	<u>1</u>	<u>0</u>		<u>89</u>
[06:00-06:15]	10	18	1	0	0	0	0	0		29
[06:15-06:30]	13	27	0	0	0	0	0	0		40
[06:30-06:45]	17	40	0	2	0	0	0	1		60
[06:45-07:00]	28	42	1	0	0	0	1	1		73
	<u>68</u>	<u>127</u>	<u>2</u>	<u>2</u>	<u>0</u>	<u>0</u>	<u>1</u>	<u>2</u>		<u>202</u>
[07:00-07:15]	23	36	0	1	1	0	0	0		61
[07:15-07:30]	19	41	1	4	3	0	0	0		68
[07:30-07:45]	35	58	1	4	0	0	0	0		98



## Time/Class Report

<b>Device ID:</b> 404740 <b>Operator:</b> MD <b>Begin:</b> 08-24-2021 12:00 AM <b>End:</b> 08-25-2021 12:00 AM <b>Hours:</b> 24.00 <b>Period (min):</b> 15	<b>Location:</b> 7871 <b>Lane:</b> EB <b>Street:</b> 699201 - EB <b>City:</b> Niagara Region <b>County:</b> <b>State:</b> ON	<b>Raw Count:</b> 7,138 <b>AADT Count:</b> 7,138 <b>AADT Factor:</b> 1 <b>Speed Limit:</b> 60
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Date And Time Range	< to 15	16 to 25	26 to 32	33 to 42	43 to 51	52 to 61	62 to 71	72 to >	Total
Tue, 08-24-2021									
[07:45-08:00]	39	56	1	3	1	0	0	0	100
	116	191	3	12	5	0	0	0	327
[08:00-08:15]	33	54	2	1	1	0	0	0	91
[08:15-08:30]	47	50	2	2	2	1	1	1	106
[08:30-08:45]	45	69	0	1	0	1	0	0	116
[08:45-09:00]	68	84	3	2	1	0	1	1	160
	193	257	7	6	4	2	2	2	473
[09:00-09:15]	38	54	1	2	0	0	0	0	95
[09:15-09:30]	26	85	0	2	1	1	1	1	117
[09:30-09:45]	35	49	0	3	0	0	0	0	87
[09:45-10:00]	46	76	3	2	2	0	0	0	129
	145	264	4	9	3	1	1	1	428
[10:00-10:15]	53	68	2	1	1	0	0	0	125
[10:15-10:30]	38	79	1	1	1	1	1	0	122
[10:30-10:45]	56	80	2	2	3	0	0	1	144
[10:45-11:00]	57	73	5	4	0	1	0	0	140
	204	300	10	8	5	2	1	1	531
[11:00-11:15]	42	72	0	2	0	0	0	0	116
[11:15-11:30]	58	75	1	2	0	0	0	0	136
[11:30-11:45]	56	80	0	2	1	0	0	0	139
[11:45-12:00]	65	74	3	2	2	0	0	0	146
	221	301	4	8	3	0	0	0	537
[12:00-12:15]	55	79	4	1	1	1	2	1	144
[12:15-12:30]	53	75	0	2	1	1	0	0	132
[12:30-12:45]	49	78	2	1	0	0	0	0	130
[12:45-13:00]	55	81	3	2	0	0	0	0	141
	212	313	9	6	2	2	2	1	547
[13:00-13:15]	57	100	0	4	0	0	0	0	161
[13:15-13:30]	50	84	3	2	0	0	0	0	139
[13:30-13:45]	59	62	2	2	1	0	2	1	129
[13:45-14:00]	56	68	4	1	0	2	1	0	132
	222	314	9	9	1	2	3	1	561
[14:00-14:15]	69	91	1	2	0	0	1	0	164
[14:15-14:30]	66	66	4	4	0	0	0	1	141
[14:30-14:45]	54	80	2	2	0	0	0	0	138
[14:45-15:00]	47	85	0	2	0	0	0	0	134
	236	322	7	10	0	0	1	1	577

## Time/Class Report

<b>Device ID:</b> 404740 <b>Operator:</b> MD <b>Begin:</b> 08-24-2021 12:00 AM <b>End:</b> 08-25-2021 12:00 AM <b>Hours:</b> 24.00 <b>Period (min):</b> 15	<b>Location:</b> 7871 <b>Lane:</b> EB <b>Street:</b> 699201 - EB <b>City:</b> Niagara Region <b>County:</b> <b>State:</b> ON	<b>Raw Count:</b> 7,138 <b>AADT Count:</b> 7,138 <b>AADT Factor:</b> 1 <b>Speed Limit:</b> 60
---	---	--

Date And Time Range	< to 15	16 to 25	26 to 32	33 to 42	43 to 51	52 to 61	62 to 71	72 to >	Total
Tue, 08-24-2021									
[15:00-15:15]	55	77	2	3	1	0	0	0	138
[15:15-15:30]	57	70	1	0	1	0	0	2	131
[15:30-15:45]	50	69	0	1	0	0	1	0	121
[15:45-16:00]	64	58	1	1	1	0	0	1	126
	226	274	4	5	3	0	1	3	516
[16:00-16:15]	43	44	1	2	0	1	0	1	92
[16:15-16:30]	49	78	2	1	0	0	0	0	130
[16:30-16:45]	58	74	0	1	1	0	1	1	136
[16:45-17:00]	44	68	0	2	1	0	0	0	115
	194	264	3	6	2	1	1	2	473
[17:00-17:15]	43	80	1	2	0	0	0	0	126
[17:15-17:30]	58	61	2	1	0	0	1	0	123
[17:30-17:45]	47	63	0	0	1	0	0	0	111
[17:45-18:00]	38	55	3	2	1	0	0	0	99
	186	259	6	5	2	0	1	0	459
[18:00-18:15]	44	57	0	2	0	2	0	0	105
[18:15-18:30]	41	42	2	0	0	0	0	0	85
[18:30-18:45]	51	52	2	0	0	0	0	0	105
[18:45-19:00]	36	60	3	1	0	0	0	1	101
	172	211	7	3	0	2	0	1	396
[19:00-19:15]	36	51	0	0	0	0	0	0	87
[19:15-19:30]	28	45	1	0	1	0	0	0	75
[19:30-19:45]	34	40	0	0	0	1	0	0	75
[19:45-20:00]	31	43	1	2	0	0	0	0	77
	129	179	2	2	1	1	0	0	314
[20:00-20:15]	32	50	1	0	0	0	0	0	83
[20:15-20:30]	28	43	0	0	0	0	0	0	71
[20:30-20:45]	24	46	1	0	0	0	2	0	73
[20:45-21:00]	23	24	0	1	0	0	0	0	48
	107	163	2	1	0	0	2	0	275
[21:00-21:15]	20	26	1	1	1	0	0	0	49
[21:15-21:30]	15	22	0	0	0	0	0	0	37
[21:30-21:45]	14	15	0	0	0	0	0	0	29
[21:45-22:00]	12	11	0	0	0	0	0	0	23
	61	74	1	1	1	0	0	0	138
[22:00-22:15]	7	18	0	0	0	0	0	0	25
[22:15-22:30]	11	13	0	0	0	0	0	0	24
[22:30-22:45]	21	11	0	0	0	0	0	0	32

## Time/Class Report

<b>Device ID:</b> 404740 <b>Operator:</b> MD <b>Begin:</b> 08-24-2021 12:00 AM <b>End:</b> 08-25-2021 12:00 AM <b>Hours:</b> 24.00 <b>Period (min):</b> 15		<b>Location:</b> 7871 <b>Lane:</b> EB <b>Street:</b> 699201 - EB <b>City:</b> Niagara Region <b>County:</b> <b>State:</b> ON				<b>Raw Count:</b> 7,138 <b>AADT Count:</b> 7,138 <b>AADT Factor:</b> 1 <b>Speed Limit:</b> 60			
Date And Time Range	< to 15	16 to 25	26 to 32	33 to 42	43 to 51	52 to 61	62 to 71	72 to >	Total
Tue, 08-24-2021									
[22:45-23:00]	12	9	1	0	0	0	0	0	22
	51	51	1	0	0	0	0	0	103
[23:00-23:15]	7	5	0	0	0	0	0	0	12
[23:15-23:30]	2	4	0	0	0	0	0	0	6
[23:30-23:45]	10	6	0	0	0	0	0	0	16
[23:45-00:00]	1	3	0	0	0	0	0	0	4
	20	18	0	0	0	0	0	0	38
08-24-2021 12:00 AM									
08-25-2021 12:00 AM									
	2821	3977	87	94	32	16	19	16	7062

## Time/Class Report

<b>Device ID:</b> 406293 <b>Operator:</b> MD <b>Begin:</b> 08-24-2021 12:00 AM <b>End:</b> 08-25-2021 12:00 AM <b>Hours:</b> 24.00 <b>Period (min):</b> 15	<b>Location:</b> 7871 <b>Lane:</b> WB <b>Street:</b> 699201 - WB <b>City:</b> Niagara Region <b>County:</b> <b>State:</b> ON	<b>Raw Count:</b> 7,279 <b>AAADT Count:</b> 7,279 <b>AAADT Factor:</b> 1 <b>Speed Limit:</b> 60
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Date And Time Range	< to 15	16 to 25	26 to 32	33 to 42	43 to 51	52 to 61	62 to 71	72 to >	Total
Tue, 08-24-2021									
[00:00-00:15]	7	6	1	0	0	0	0	1	15
[00:15-00:30]	4	1	0	0	0	0	0	0	5
[00:30-00:45]	2	1	1	0	0	0	0	0	4
[00:45-01:00]	1	3	0	0	0	0	0	0	4
	14	11	2	0	0	0	0	1	28
[01:00-01:15]	1	2	0	0	0	0	0	0	3
[01:15-01:30]	0	2	0	0	0	0	0	0	2
[01:30-01:45]	1	2	0	0	0	0	0	0	3
[01:45-02:00]	1	4	0	0	0	0	0	1	6
	3	10	0	0	0	0	0	1	14
[02:00-02:15]	1	2	0	0	0	0	0	0	3
[02:15-02:30]	1	0	0	0	0	0	1	0	2
[02:30-02:45]	1	0	0	0	0	0	0	0	1
[02:45-03:00]	1	1	0	0	0	0	0	0	2
	4	3	0	0	0	0	1	0	8
[03:00-03:15]	1	2	0	0	0	0	0	0	3
[03:15-03:30]	0	0	0	0	0	0	0	0	0
[03:30-03:45]	0	0	0	0	0	0	0	0	0
[03:45-04:00]	3	1	0	0	0	0	0	0	4
	4	3	0	0	0	0	0	0	7
[04:00-04:15]	0	3	0	0	0	0	0	1	4
[04:15-04:30]	0	0	0	0	0	0	0	2	2
[04:30-04:45]	0	0	0	0	0	0	0	0	0
[04:45-05:00]	1	2	0	1	0	0	1	0	5
	1	5	0	1	0	0	1	3	11
[05:00-05:15]	2	7	0	0	0	0	0	0	9
[05:15-05:30]	1	10	2	1	0	0	0	0	14
[05:30-05:45]	3	9	0	0	0	0	0	0	12
[05:45-06:00]	7	10	1	0	0	0	0	0	18
	13	36	3	1	0	0	0	0	53
[06:00-06:15]	6	8	1	1	0	0	0	1	17
[06:15-06:30]	5	17	0	0	0	0	0	0	22
[06:30-06:45]	7	21	1	1	1	0	0	0	31
[06:45-07:00]	10	28	1	2	1	0	1	0	43
	28	74	3	4	2	0	1	1	113
[07:00-07:15]	11	25	0	0	0	0	0	0	36
[07:15-07:30]	21	33	1	1	1	0	0	0	57
[07:30-07:45]	22	34	0	1	3	2	0	0	62

## Time/Class Report

<b>Device ID:</b> 406293 <b>Operator:</b> MD <b>Begin:</b> 08-24-2021 12:00 AM <b>End:</b> 08-25-2021 12:00 AM <b>Hours:</b> 24.00 <b>Period (min):</b> 15	<b>Location:</b> 7871 <b>Lane:</b> WB <b>Street:</b> 699201 - WB <b>City:</b> Niagara Region <b>County:</b> <b>State:</b> ON	<b>Raw Count:</b> 7,279 <b>AADT Count:</b> 7,279 <b>AADT Factor:</b> 1 <b>Speed Limit:</b> 60
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Date And Time Range	< to 15	16 to 25	26 to 32	33 to 42	43 to 51	52 to 61	62 to 71	72 to >	Total
Tue, 08-24-2021									
[07:45-08:00]	17	50	2	5	0	0	0	0	74
	71	142	3	7	4	2	0	0	229
[08:00-08:15]	15	52	0	6	3	0	0	1	77
[08:15-08:30]	19	38	1	0	1	0	0	0	59
[08:30-08:45]	25	50	3	2	2	1	0	1	84
[08:45-09:00]	30	47	3	2	3	1	0	2	88
	89	187	7	10	9	2	0	4	308
[09:00-09:15]	32	62	2	1	1	0	2	0	100
[09:15-09:30]	32	57	2	4	1	1	0	0	97
[09:30-09:45]	23	68	0	2	0	0	0	1	94
[09:45-10:00]	21	61	2	1	0	0	1	0	86
	108	248	6	8	2	1	3	1	377
[10:00-10:15]	32	61	1	2	0	1	1	1	99
[10:15-10:30]	39	69	3	2	0	0	0	0	113
[10:30-10:45]	38	76	4	2	1	0	0	0	121
[10:45-11:00]	38	82	4	2	1	0	1	0	128
	147	288	12	8	2	1	2	1	461
[11:00-11:15]	52	70	0	2	0	0	3	0	127
[11:15-11:30]	37	82	1	0	1	0	0	0	121
[11:30-11:45]	43	78	2	5	2	1	0	1	132
[11:45-12:00]	46	97	0	3	1	0	1	2	150
	178	327	3	10	4	1	4	3	530
[12:00-12:15]	44	122	4	4	2	0	0	0	176
[12:15-12:30]	36	73	5	0	0	0	1	1	116
[12:30-12:45]	64	93	4	1	0	1	1	0	164
[12:45-13:00]	45	97	2	3	1	0	0	0	148
	189	385	15	8	3	1	2	1	604
[13:00-13:15]	51	103	1	1	2	0	2	0	160
[13:15-13:30]	32	104	3	1	2	0	2	1	145
[13:30-13:45]	56	81	4	2	3	0	0	0	146
[13:45-14:00]	36	91	4	1	0	2	3	0	137
	175	379	12	5	7	2	7	1	588
[14:00-14:15]	41	76	4	1	2	1	1	0	126
[14:15-14:30]	46	111	6	2	1	0	0	0	166
[14:30-14:45]	53	97	1	1	0	0	1	1	154
[14:45-15:00]	61	87	2	3	0	0	0	0	153
	201	371	13	7	3	1	2	1	599

## Time/Class Report

<b>Device ID:</b> 406293 <b>Operator:</b> MD <b>Begin:</b> 08-24-2021 12:00 AM <b>End:</b> 08-25-2021 12:00 AM <b>Hours:</b> 24.00 <b>Period (min):</b> 15	<b>Location:</b> 7871 <b>Lane:</b> WB <b>Street:</b> 699201 - WB <b>City:</b> Niagara Region <b>County:</b> <b>State:</b> ON	<b>Raw Count:</b> 7,279 <b>AADT Count:</b> 7,279 <b>AADT Factor:</b> 1 <b>Speed Limit:</b> 60
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Date And Time Range	< to 15	16 to 25	26 to 32	33 to 42	43 to 51	52 to 61	62 to 71	72 to >	Total
Tue, 08-24-2021									
[15:00-15:15]	44	79	1	1	1	0	0	1	127
[15:15-15:30]	58	96	2	1	2	0	0	1	160
[15:30-15:45]	63	104	2	2	0	0	0	0	171
[15:45-16:00]	42	86	2	0	1	0	1	1	133
	207	365	7	4	4	0	1	3	591
[16:00-16:15]	47	103	1	1	0	1	0	1	154
[16:15-16:30]	59	88	1	2	0	0	0	1	151
[16:30-16:45]	42	92	1	3	2	0	3	0	143
[16:45-17:00]	48	94	1	5	1	0	1	2	152
	196	377	4	11	3	1	4	4	600
[17:00-17:15]	56	77	1	0	0	0	1	1	136
[17:15-17:30]	55	86	1	2	2	0	0	0	146
[17:30-17:45]	54	71	0	1	0	0	0	1	127
[17:45-18:00]	34	73	2	0	0	0	0	0	109
	199	307	4	3	2	0	1	2	518
[18:00-18:15]	36	79	2	1	0	1	0	0	119
[18:15-18:30]	37	72	1	2	0	0	0	0	112
[18:30-18:45]	30	68	1	0	0	0	0	0	99
[18:45-19:00]	34	69	0	0	1	0	0	0	104
	137	288	4	3	1	1	0	0	434
[19:00-19:15]	30	50	1	1	0	0	0	0	82
[19:15-19:30]	25	55	1	2	0	0	1	0	84
[19:30-19:45]	34	62	0	1	0	0	0	0	97
[19:45-20:00]	33	86	1	2	0	0	0	1	123
	122	253	3	6	0	0	1	1	386
[20:00-20:15]	41	61	0	2	0	1	0	1	106
[20:15-20:30]	31	60	1	0	0	0	0	0	92
[20:30-20:45]	31	62	0	0	1	0	0	0	94
[20:45-21:00]	18	39	4	0	0	0	0	1	62
	121	222	5	2	1	1	0	2	354
[21:00-21:15]	27	47	1	1	1	0	0	0	77
[21:15-21:30]	23	33	0	1	0	0	0	0	57
[21:30-21:45]	13	32	0	0	1	0	0	0	46
[21:45-22:00]	9	32	0	1	0	0	0	0	42
	72	144	1	3	2	0	0	0	222
[22:00-22:15]	13	25	0	2	0	0	0	0	40
[22:15-22:30]	6	20	0	1	0	0	0	0	27
[22:30-22:45]	7	17	0	0	0	1	0	0	25

## Time/Class Report

<b>Device ID:</b> 406293 <b>Operator:</b> MD <b>Begin:</b> 08-24-2021 12:00 AM <b>End:</b> 08-25-2021 12:00 AM <b>Hours:</b> 24.00 <b>Period (min):</b> 15	<b>Location:</b> 7871 <b>Lane:</b> WB <b>Street:</b> 699201 - WB <b>City:</b> Niagara Region <b>County:</b> <b>State:</b> ON	<b>Raw Count:</b> 7,279 <b>AADT Count:</b> 7,279 <b>AADT Factor:</b> 1 <b>Speed Limit:</b> 60							
Date And Time Range	< to 15	16 to 25	26 to 32	33 to 42	43 to 51	52 to 61	62 to 71	72 to >	Total
Tue, 08-24-2021									
[22:45-23:00]	10	17	0	0	0	0	0	0	27
	36	79	0	3	0	1	0	0	119
[23:00-23:15]	8	10	0	0	0	0	0	0	18
[23:15-23:30]	6	11	0	0	0	0	1	0	18
[23:30-23:45]	2	6	0	0	0	0	1	0	9
[23:45-00:00]	4	12	1	0	0	0	0	0	17
	20	39	1	0	0	0	2	0	62
08-24-2021 12:00 AM									
08-25-2021 12:00 AM									
	2335	4543	108	104	49	15	32	30	7216

# **APPENDIX B**

## **ENVIRONMENTAL NOISE GUIDELINES**



## ENVIRONMENTAL NOISE GUIDELINES

### MINISTRY OF THE ENVIRONMENT, CONSERVATION AND PARKS(MECP)

Reference: MECP Publication NPC-300, October 2013: “*Environmental Noise Guideline, Stationary and Transportation Sources – Approval and Planning*”.

SPACE	SOURCE	TIME PERIOD	CRITERION
Living/dining, den areas of residences, hospitals, nursing homes, schools, daycare centres, etc.	Road	07:00 to 23:00	45 dBA
	Rail	07:00 to 23:00	40 dBA
	Aircraft	24-hour period	NEF/NEP 5
Living/dining, den areas of residences, hospitals, nursing homes, etc. (except schools or daycare centres)	Road	23:00 to 07:00	45 dBA
	Rail	23:00 to 07:00	40 dBA
	Aircraft	24-hour period	NEF/NEP 5
Sleeping quarters	Road	07:00 to 23:00	45 dBA
	Rail	07:00 to 23:00	40 dBA
	Aircraft	24-hour period	NEF/NEP 0
Sleeping quarters	Road	23:00 to 07:00	40 dBA
	Rail	23:00 to 07:00	35 dBA
	Aircraft	24-hour period	NEF/NEP 0
Outdoor Living Areas	Road and Rail	07:00 to 23:00	55 dBA
Outdoor Point of Reception	Aircraft	24-hour period	NEF/NEP 30 <sup>#</sup>
	Stationary Source		
	Class 1 Area	07:00 to 19:00 <sup>(1)</sup> 19:00 to 23:00 <sup>(1)</sup>	50 <sup>*</sup> dBA 50 <sup>*</sup> dBA
	Class 2 Area	07:00 to 19:00 <sup>(2)</sup> 19:00 to 23:00 <sup>(2)</sup>	50 <sup>*</sup> dBA 45 <sup>+</sup> dBA
	Class 3 Area	07:00 to 19:00 <sup>(3)</sup> 19:00 to 23:00 <sup>(3)</sup>	45 <sup>+</sup> dBA 40 <sup>+</sup> dBA
	Class 4 Area	07:00 to 19:00 <sup>(4)</sup> 19:00 to 23:00 <sup>(4)</sup>	55 <sup>+</sup> dBA 55 <sup>+</sup> dBA

.../cont'd

SPACE	SOURCE	TIME PERIOD	CRITERION
Plane of a Window of Noise Sensitive Spaces	Stationary Source Class 1 Area	07:00 to 19:00 <sup>(1)</sup>	50 <sup>+</sup> dBA
		19:00 to 23:00 <sup>(1)</sup>	50 <sup>+</sup> dBA
		23:00 to 07:00 <sup>(1)</sup>	45 <sup>+</sup> dBA
	Class 2 Area	07:00 to 19:00 <sup>(2)</sup>	50 <sup>+</sup> dBA
		19:00 to 23:00 <sup>(2)</sup>	50 <sup>+</sup> dBA
		23:00 to 07:00 <sup>(2)</sup>	45 <sup>+</sup> dBA
	Class 3 Area	07:00 to 19:00 <sup>(3)</sup>	45 <sup>+</sup> dBA
		19:00 to 23:00 <sup>(3)</sup>	45 <sup>+</sup> dBA
		23:00 to 07:00 <sup>(3)</sup>	40 <sup>+</sup> dBA
	Class 4 Area	07:00 to 19:00 <sup>(4)</sup>	60 <sup>+</sup> dBA
		19:00 to 23:00 <sup>(4)</sup>	60 <sup>+</sup> dBA
		23:00 to 07:00 <sup>(4)</sup>	55 <sup>+</sup> dBA

- # may not apply to in-fill or re-development.  
 \* or the minimum hourly background sound exposure  $L_{eq(1)}$ , due to road traffic, if higher.  
 (1) Class 1 Area: Urban.  
 (2) Class 2 Area: Urban during day; rural-like evening and night.  
 (3) Class 3 Area: Rural.  
 (4) Class 4 Area: Subject to land use planning authority's approval.

Reference: MECP Publication ISBN 0-7729-2804-5, 1987: "Environmental Noise Assessment in Land-Use Planning".

EXCESS ABOVE RECOMMENDED SOUND LEVEL LIMITS (dBA)	CHANGE IN SUBJECTIVE LOUDNESS ABOVE	MAGNITUDE OF THE NOISE PROBLEM	NOISE CONTROL MEASURES (OR ACTION TO BE TAKEN)
No excess (<55 dBA)	—	No expected noise problem	None
1 to 5 inclusive (56 to 60 dBA)	Noticeably louder	Slight noise impact	If no physical measures are taken, then prospective purchasers or tenants should be made aware by suitable warning clauses.
6 to 10 inclusive (61 - 65 dBA)	Almost twice as loud	Definite noise impact	Recommended.
11 to 15 inclusive (66 - 70 dBA)	Almost three times as loud	Serious noise impact	Strongly Recommended.
16 and over (>70 dBA)	Almost four times as loud	Very serious noise impact	Strongly Recommended (may be mandatory).

# **APPENDIX C**

## **SAMPLE TRANSPORTATION NOISE SOURCE SOUND LEVEL CALCULATIONS**



Results segment # 1: Garrison (night)

-----  
Source height = 1.18 m

ROAD (0.00 + 52.06 + 0.00) = 52.06 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	90	0.00	58.99	0.00	-6.93	0.00	0.00	0.00	0.00	52.06

-----

Segment Leq : 52.06 dBA

Total Leq All Segments: 52.06 dBA

TOTAL Leq FROM ALL SOURCES (DAY): 61.88

(NIGHT): 52.06

# **APPENDIX D**

## **STATIONARY NOISE SOURCE DATA AND SAMPLE CALCULATIONS**

# Crescent Acres, Fort Erie

## Point Sources

Name	M.	ID	Result. PWL			Lw / Li		Correction			Sound Reduction		Attenuation	Operating Time			K0	Freq.	Direct.	Height	Coordinates		
			Day (dBA)	Evening (dBA)	Night (dBA)	Type	Value	norm. dB(A)	Day dB(A)	Evening dB(A)	Night dB(A)	R		Area (m²)	Day (min)	Special (min)					Night (min)	X (m)	Y (m)
CP_RTU1		CP_RTU1	81.7	81.7	81.7	Lw	CP_RTU1	0.0	0.0	0.0			60.00	60.00	30.00	0.0		(none)	1.40	g	1412403.93	5409205.65	5.40
CP_RTU2		CP_RTU2	77.6	77.6	77.6	Lw	CP_RTU2_RTU4	0.0	0.0	0.0			60.00	60.00	30.00	0.0		(none)	1.30	g	1412418.00	5409206.94	5.30
CP_RTU3		CP_RTU3	75.4	75.4	75.4	Lw	CP_RTU3	0.0	0.0	0.0			60.00	60.00	30.00	0.0		(none)	1.20	g	1412436.65	5409210.82	5.20
CP_RTU4		CP_RTU4	77.6	77.6	77.6	Lw	CP_RTU2_RTU4	0.0	0.0	0.0			60.00	60.00	30.00	0.0		(none)	1.30	g	1412435.81	5409218.70	5.30
CP_RTU5		CP_RTU5	76.7	76.7	76.7	Lw	CP_RTU5	0.0	0.0	0.0			60.00	60.00	30.00	0.0		(none)	1.30	g	1412435.60	5409221.16	5.30
CP_Cond		CP_Cond	93.0	93.0	93.0	Lw	CP_Cond	0.0	0.0	0.0			60.00	60.00	30.00	0.0		(none)	1.00	g	1412435.78	5409215.39	5.00
CP_CAR		CP_CAR_01	80.0	80.0	80.0	Lw	CAR_I	0.0	0.0	0.0			60.00	60.00	10.00	0.0		(none)	1.20	r	1412390.08	5409206.44	1.20
CP_CAR		CP_CAR_02	80.0	80.0	80.0	Lw	CAR_I	0.0	0.0	0.0			60.00	60.00	0.00	0.0		(none)	1.20	r	1412389.75	5409213.86	1.20
TH_RTU1	~	TH_RTU1	80.1	80.1	80.1	Lw	TH_RTU	0.0	0.0	0.0			60.00	60.00	30.00	0.0		(none)	1.40	g	1412489.50	5409225.77	5.40
TH_RTU2	~	TH_RTU2	80.1	80.1	80.1	Lw	TH_RTU	0.0	0.0	0.0			60.00	60.00	30.00	0.0		(none)	1.40	g	1412494.66	5409224.58	5.40
TH_Order	~	TH_Order	86.5	86.5	86.5	Lw	TH_SPKR	0.0	0.0	0.0			23.30	23.30	20.00	0.0		(none)	1.00	r	1412494.45	5409212.13	1.00
TH_EF	~	TH_EF	77.4	77.4	77.4	Lw	TH_EF	0.0	0.0	0.0			60.00	60.00	60.00	0.0		(none)	0.80	g	1412499.48	5409220.79	4.80
TH_AC	~	TH_AC	83.9	83.9	83.9	Lw	TH_Cond	0.0	0.0	0.0			60.00	60.00	30.00	0.0		(none)	1.00	g	1412498.56	5409229.13	5.00
CAR	~	TH_CAR_001	80.0	80.0	80.0	Lw	CAR_I	0.0	0.0	0.0			60.00	60.00	60.00	0.0		(none)	1.20	r	1412502.77	5409231.65	1.20
CAR	~	TH_CAR_002	80.0	80.0	80.0	Lw	CAR_I	0.0	0.0	0.0			60.00	60.00	60.00	0.0		(none)	1.20	r	1412503.28	5409225.71	1.20
CAR	~	TH_CAR_003	80.0	80.0	80.0	Lw	CAR_I	0.0	0.0	0.0			60.00	60.00	60.00	0.0		(none)	1.20	r	1412504.09	5409218.80	1.20
CAR	~	TH_CAR_004	80.0	80.0	80.0	Lw	CAR_I	0.0	0.0	0.0			60.00	60.00	60.00	0.0		(none)	1.20	r	1412503.01	5409211.98	1.20
CAR	~	TH_CAR_005	80.0	80.0	80.0	Lw	CAR_I	0.0	0.0	0.0			60.00	60.00	60.00	0.0		(none)	1.20	r	1412496.84	5409209.90	1.20
CAR	~	TH_CAR_006	80.0	80.0	80.0	Lw	CAR_I	0.0	0.0	0.0			60.00	60.00	60.00	0.0		(none)	1.20	r	1412489.91	5409209.40	1.20
CAR	~	TH_CAR_007	80.0	80.0	80.0	Lw	CAR_I	0.0	0.0	0.0			60.00	60.00	60.00	0.0		(none)	1.20	r	1412482.82	5409208.88	1.20
CAR_I	~	TH_CAR_008	80.0	80.0	80.0	Lw	CAR_I	0.0	0.0	0.0			60.00	60.00	60.00	0.0		(none)	1.20	r	1412475.78	5409208.39	1.20
CAR	~	TH_CAR_009	80.0	80.0	80.0	Lw	CAR_I	0.0	0.0	0.0			60.00	60.00	60.00	0.0		(none)	1.20	r	1412468.77	5409207.79	1.20
CAR	~	TH_CAR_010	80.0	80.0	80.0	Lw	CAR_I	0.0	0.0	0.0			60.00	60.00	60.00	0.0		(none)	1.20	r	1412459.83	5409207.71	1.20
CAR	~	TH_CAR_011	80.0	80.0	80.0	Lw	CAR_I	0.0	0.0	0.0			60.00	60.00	60.00	0.0		(none)	1.20	r	1412456.18	5409211.53	1.20
CAR	~	TH_CAR_012	80.0	80.0	80.0	Lw	CAR_I	0.0	0.0	0.0			60.00	60.00	60.00	0.0		(none)	1.20	r	1412455.07	5409218.03	1.20

## Sound Level Library

Name	ID	Type	1/3 Oktave Spectrum (dB)													Source	
			Weight.	31.5	63	125	250	500	1000	2000	4000	8000	A	lin			
CP_RTU1	CP_RTU1	Lw	0.0	90.6	84.3	80.2	79.3	77.1	72.2	67.4	63.7	81.7	92.3	Carrier 48HCED08A - Manufacturer data			
CP_RTU2_RTU4	CP_RTU2_RTU4	Lw	0.0	84.7	83.6	77.1	74.6	72.3	68.3	64.7	60.9	77.6	88.0	Carrier 48HCEA05A Manufacturer Data			
CP_RTU3	CP_RTU3	Lw	0.0	78.2	78.0	74.2	73.3	70.6	66.0	62.4	56.9	75.4	82.9	Carrier 48HCEA04 Manufacturer data			
CP_Cond	CP_Cond	Lw (c)	96.8	98.8	96.8	89.8	91.8	88.8	81.8	75.8	68.8	93.0	103.2	TH_Cond spectrum + overall level from manuf. data			
CP_RTU5	CP_RTU5	Lw	0.0	87.5	82.5	76.1	73.6	71.3	67.1	64.1	60.0	76.7	89.2	Carrier HCEA06A Manufacturer data			
TH_SPKR	TH_SPKR	Lw	0.0	0.0	78.0	83.0	84.0	83.0	78.0	70.0	58.0	86.5	89.0	VCL_Database			
Idling_Car	CAR_I	Lw	0.0	85.1	78.0	76.1	78.2	73.7	72.2	69.2	67.0	80.0	87.4	VCL_Database			
Lennox_RTU	TH_RTU	Lw	0.0	0.0	67.0	72.0	77.0	76.0	73.0	68.0	61.0	80.1	81.4	Lennox 5-ton Manuf. Data			
TH_EF	TH_EF	Lw	82.2	83.1	79.4	76.0	73.8	73.8	68.8	59.9	53.8	77.4	87.4	120277 Orangeville			
TH_Cond	TH_Cond	Lw	86.7	89.1	87.7	81.3	82.8	79.5	72.5	66.4	59.8	83.9	93.6	112-017 2014-11-14 VCL Measurements			

Crescent Acres, Fort Erie

Receiver  
 Name: POW\_2  
 ID: POW\_2  
 X: 1412451.80 m  
 Y: 5409191.37 m  
 Z: 4.50 m

Point Source, ISO 9613, Name: "CP_Cond", ID: "CP_Cond"																				
Nr.	X (m)	Y (m)	Z (m)	Refl.	DEN	Freq. (Hz)	Lw dB(A)	l/a dB	Optime dB	K0 (dB)	Di (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	Lr dB(A)
14	1412435.78	5409215.39	5.00	0	D	32	57.4	0.0	0.0	0.0	0.0	40.2	0.0	-3.0	0.0	0.0	3.0	0.0	0.0	17.2
14	1412435.78	5409215.39	5.00	0	D	63	72.6	0.0	0.0	0.0	0.0	40.2	0.0	-3.0	0.0	0.0	3.6	0.0	0.0	31.8
14	1412435.78	5409215.39	5.00	0	D	125	80.7	0.0	0.0	0.0	0.0	40.2	0.0	1.7	0.0	0.0	2.6	0.0	0.0	36.3
14	1412435.78	5409215.39	5.00	0	D	250	81.2	0.0	0.0	0.0	0.0	40.2	0.0	0.3	0.0	0.0	4.9	0.0	0.0	35.8
14	1412435.78	5409215.39	5.00	0	D	500	88.6	0.0	0.0	0.0	0.0	40.2	0.1	-0.5	0.0	0.0	7.3	0.0	0.0	41.5
14	1412435.78	5409215.39	5.00	0	D	1000	88.8	0.0	0.0	0.0	0.0	40.2	0.1	-0.5	0.0	0.0	9.5	0.0	0.0	39.5
14	1412435.78	5409215.39	5.00	0	D	2000	83.0	0.0	0.0	0.0	0.0	40.2	0.3	-0.5	0.0	0.0	12.1	0.0	0.0	31.0
14	1412435.78	5409215.39	5.00	0	D	4000	76.8	0.0	0.0	0.0	0.0	40.2	0.9	-0.5	0.0	0.0	14.8	0.0	0.0	21.4
14	1412435.78	5409215.39	5.00	0	D	8000	67.7	0.0	0.0	0.0	0.0	40.2	3.4	-0.5	0.0	0.0	17.7	0.0	0.0	7.0
14	1412435.78	5409215.39	5.00	0	N	32	57.4	0.0	-3.0	0.0	0.0	40.2	0.0	-3.0	0.0	0.0	3.0	0.0	0.0	14.2
14	1412435.78	5409215.39	5.00	0	N	63	72.6	0.0	-3.0	0.0	0.0	40.2	0.0	-3.0	0.0	0.0	3.6	0.0	0.0	28.8
14	1412435.78	5409215.39	5.00	0	N	125	80.7	0.0	-3.0	0.0	0.0	40.2	0.0	1.7	0.0	0.0	2.6	0.0	0.0	33.3
14	1412435.78	5409215.39	5.00	0	N	250	81.2	0.0	-3.0	0.0	0.0	40.2	0.0	0.3	0.0	0.0	4.9	0.0	0.0	32.7
14	1412435.78	5409215.39	5.00	0	N	500	88.6	0.0	-3.0	0.0	0.0	40.2	0.1	-0.5	0.0	0.0	7.3	0.0	0.0	38.5
14	1412435.78	5409215.39	5.00	0	N	1000	88.8	0.0	-3.0	0.0	0.0	40.2	0.1	-0.5	0.0	0.0	9.5	0.0	0.0	36.5
14	1412435.78	5409215.39	5.00	0	N	2000	83.0	0.0	-3.0	0.0	0.0	40.2	0.3	-0.5	0.0	0.0	12.1	0.0	0.0	28.0
14	1412435.78	5409215.39	5.00	0	N	4000	76.8	0.0	-3.0	0.0	0.0	40.2	0.9	-0.5	0.0	0.0	14.8	0.0	0.0	18.4
14	1412435.78	5409215.39	5.00	0	N	8000	67.7	0.0	-3.0	0.0	0.0	40.2	3.4	-0.5	0.0	0.0	17.7	0.0	0.0	4.0
14	1412435.78	5409215.39	5.00	0	E	32	57.4	0.0	0.0	0.0	0.0	40.2	0.0	-3.0	0.0	0.0	3.0	0.0	0.0	17.2
14	1412435.78	5409215.39	5.00	0	E	63	72.6	0.0	0.0	0.0	0.0	40.2	0.0	-3.0	0.0	0.0	3.6	0.0	0.0	31.8
14	1412435.78	5409215.39	5.00	0	E	125	80.7	0.0	0.0	0.0	0.0	40.2	0.0	1.7	0.0	0.0	2.6	0.0	0.0	36.3
14	1412435.78	5409215.39	5.00	0	E	250	81.2	0.0	0.0	0.0	0.0	40.2	0.0	0.3	0.0	0.0	4.9	0.0	0.0	35.8
14	1412435.78	5409215.39	5.00	0	E	500	88.6	0.0	0.0	0.0	0.0	40.2	0.1	-0.5	0.0	0.0	7.3	0.0	0.0	41.5
14	1412435.78	5409215.39	5.00	0	E	1000	88.8	0.0	0.0	0.0	0.0	40.2	0.1	-0.5	0.0	0.0	9.5	0.0	0.0	39.5
14	1412435.78	5409215.39	5.00	0	E	2000	83.0	0.0	0.0	0.0	0.0	40.2	0.3	-0.5	0.0	0.0	12.1	0.0	0.0	31.0
14	1412435.78	5409215.39	5.00	0	E	4000	76.8	0.0	0.0	0.0	0.0	40.2	0.9	-0.5	0.0	0.0	14.8	0.0	0.0	21.4
14	1412435.78	5409215.39	5.00	0	E	8000	67.7	0.0	0.0	0.0	0.0	40.2	3.4	-0.5	0.0	0.0	17.7	0.0	0.0	7.0
17	1412435.78	5409215.39	5.00	1	D	63	72.6	0.0	0.0	0.0	0.0	40.5	0.0	-3.0	0.0	0.0	8.4	0.0	2.0	24.7
17	1412435.78	5409215.39	5.00	1	D	125	80.7	0.0	0.0	0.0	0.0	40.5	0.0	2.7	0.0	0.0	3.4	0.0	2.0	32.2
17	1412435.78	5409215.39	5.00	1	D	250	81.2	0.0	0.0	0.0	0.0	40.5	0.0	1.0	0.0	0.0	6.0	0.0	2.0	31.7
17	1412435.78	5409215.39	5.00	1	D	500	88.6	0.0	0.0	0.0	0.0	40.5	0.1	0.0	0.0	0.0	8.5	0.0	2.0	37.6
17	1412435.78	5409215.39	5.00	1	D	1000	88.8	0.0	0.0	0.0	0.0	40.5	0.1	0.0	0.0	0.0	10.4	0.0	2.0	35.8
17	1412435.78	5409215.39	5.00	1	D	2000	83.0	0.0	0.0	0.0	0.0	40.5	0.3	0.0	0.0	0.0	12.8	0.0	2.0	27.4
17	1412435.78	5409215.39	5.00	1	D	4000	76.8	0.0	0.0	0.0	0.0	40.5	1.0	0.0	0.0	0.0	15.5	0.0	2.0	17.9
17	1412435.78	5409215.39	5.00	1	D	8000	67.7	0.0	0.0	0.0	0.0	40.5	3.5	0.0	0.0	0.0	18.3	0.0	2.0	3.5
17	1412435.78	5409215.39	5.00	1	N	63	72.6	0.0	-3.0	0.0	0.0	40.5	0.0	-3.0	0.0	0.0	8.4	0.0	2.0	21.7
17	1412435.78	5409215.39	5.00	1	N	125	80.7	0.0	-3.0	0.0	0.0	40.5	0.0	2.7	0.0	0.0	3.4	0.0	2.0	29.2
17	1412435.78	5409215.39	5.00	1	N	250	81.2	0.0	-3.0	0.0	0.0	40.5	0.0	1.0	0.0	0.0	6.0	0.0	2.0	28.7
17	1412435.78	5409215.39	5.00	1	N	500	88.6	0.0	-3.0	0.0	0.0	40.5	0.1	0.0	0.0	0.0	8.5	0.0	2.0	34.6
17	1412435.78	5409215.39	5.00	1	N	1000	88.8	0.0	-3.0	0.0	0.0	40.5	0.1	0.0	0.0	0.0	10.4	0.0	2.0	32.8
17	1412435.78	5409215.39	5.00	1	N	2000	83.0	0.0	-3.0	0.0	0.0	40.5	0.3	0.0	0.0	0.0	12.8	0.0	2.0	24.4
17	1412435.78	5409215.39	5.00	1	N	4000	76.8	0.0	-3.0	0.0	0.0	40.5	1.0	0.0	0.0	0.0	15.5	0.0	2.0	14.9
17	1412435.78	5409215.39	5.00	1	N	8000	67.7	0.0	-3.0	0.0	0.0	40.5	3.5	0.0	0.0	0.0	18.3	0.0	2.0	0.4
17	1412435.78	5409215.39	5.00	1	E	63	72.6	0.0	0.0	0.0	0.0	40.5	0.0	-3.0	0.0	0.0	8.4	0.0	2.0	24.7
17	1412435.78	5409215.39	5.00	1	E	125	80.7	0.0	0.0	0.0	0.0	40.5	0.0	2.7	0.0	0.0	3.4	0.0	2.0	32.2
17	1412435.78	5409215.39	5.00	1	E	250	81.2	0.0	0.0	0.0	0.0	40.5	0.0	1.0	0.0	0.0	6.0	0.0	2.0	31.7
17	1412435.78	5409215.39	5.00	1	E	500	88.6	0.0	0.0	0.0	0.0	40.5	0.1	0.0	0.0	0.0	8.5	0.0	2.0	37.6
17	1412435.78	5409215.39	5.00	1	E	1000	88.8	0.0	0.0	0.0	0.0	40.5	0.1	0.0	0.0	0.0	10.4	0.0	2.0	35.8
17	1412435.78	5409215.39	5.00	1	E	2000	83.0	0.0	0.0	0.0	0.0	40.5	0.3	0.0	0.0	0.0	12.8	0.0	2.0	27.4
17	1412435.78	5409215.39	5.00	1	E	4000	76.8	0.0	0.0	0.0	0.0	40.5	1.0	0.0	0.0	0.0	15.5	0.0	2.0	17.9
17	1412435.78	5409215.39	5.00	1	E	8000	67.7	0.0	0.0	0.0	0.0	40.5	3.5	0.0	0.0	0.0	18.3	0.0	2.0	3.5
19	1412435.78	5409215.39	5.00	1	D	2000	83.0	0.0	0.0	0.0	0.0	46.4	0.6	0.0	0.0	0.0	16.6	0.0	2.0	17.4



Point Source, ISO 9613, Name: "CP_Cond", ID: "CP_Cond"																				
Nr.	X	Y	Z	Ref.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
19	1412435.78	5409215.39	5.00	1	D	4000	76.8	0.0	0.0	0.0	0.0	46.4	1.9	0.0	0.0	0.0	19.5	0.0	2.0	7.0
19	1412435.78	5409215.39	5.00	1	D	8000	67.7	0.0	0.0	0.0	0.0	46.4	6.9	0.0	0.0	0.0	22.4	0.0	2.0	-10.0
19	1412435.78	5409215.39	5.00	1	N	2000	83.0	0.0	-3.0	0.0	0.0	46.4	0.6	0.0	0.0	0.0	16.6	0.0	2.0	14.4
19	1412435.78	5409215.39	5.00	1	N	4000	76.8	0.0	-3.0	0.0	0.0	46.4	1.9	0.0	0.0	0.0	19.5	0.0	2.0	4.0
19	1412435.78	5409215.39	5.00	1	N	8000	67.7	0.0	-3.0	0.0	0.0	46.4	6.9	0.0	0.0	0.0	22.4	0.0	2.0	-13.0
19	1412435.78	5409215.39	5.00	1	E	2000	83.0	0.0	0.0	0.0	0.0	46.4	0.6	0.0	0.0	0.0	16.6	0.0	2.0	17.4
19	1412435.78	5409215.39	5.00	1	E	4000	76.8	0.0	0.0	0.0	0.0	46.4	1.9	0.0	0.0	0.0	19.5	0.0	2.0	7.0
19	1412435.78	5409215.39	5.00	1	E	8000	67.7	0.0	0.0	0.0	0.0	46.4	6.9	0.0	0.0	0.0	22.4	0.0	2.0	-10.0
21	1412435.78	5409215.39	5.00	2	D	2000	83.0	0.0	0.0	0.0	0.0	46.7	0.6	0.0	0.0	0.0	14.2	0.0	4.0	17.6
21	1412435.78	5409215.39	5.00	2	D	4000	76.8	0.0	0.0	0.0	0.0	46.7	2.0	0.0	0.0	0.0	16.9	0.0	4.0	7.2
21	1412435.78	5409215.39	5.00	2	D	8000	67.7	0.0	0.0	0.0	0.0	46.7	7.1	0.0	0.0	0.0	19.8	0.0	4.0	-9.8
21	1412435.78	5409215.39	5.00	2	N	2000	83.0	0.0	-3.0	0.0	0.0	46.7	0.6	0.0	0.0	0.0	14.2	0.0	4.0	14.6
21	1412435.78	5409215.39	5.00	2	N	4000	76.8	0.0	-3.0	0.0	0.0	46.7	2.0	0.0	0.0	0.0	16.9	0.0	4.0	4.2
21	1412435.78	5409215.39	5.00	2	N	8000	67.7	0.0	-3.0	0.0	0.0	46.7	7.1	0.0	0.0	0.0	19.8	0.0	4.0	-12.8
21	1412435.78	5409215.39	5.00	2	E	2000	83.0	0.0	0.0	0.0	0.0	46.7	0.6	0.0	0.0	0.0	14.2	0.0	4.0	17.6
21	1412435.78	5409215.39	5.00	2	E	4000	76.8	0.0	0.0	0.0	0.0	46.7	2.0	0.0	0.0	0.0	16.9	0.0	4.0	7.2
21	1412435.78	5409215.39	5.00	2	E	8000	67.7	0.0	0.0	0.0	0.0	46.7	7.1	0.0	0.0	0.0	19.8	0.0	4.0	-9.8

Point Source, ISO 9613, Name: "CP_RTU1", ID: "CP_RTU1"																				
Nr.	X	Y	Z	Ref.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
27	1412403.93	5409205.65	5.40	0	D	32	-39.4	0.0	0.0	0.0	0.0	45.0	0.0	-3.0	0.0	0.0	7.8	0.0	0.0	-89.2
27	1412403.93	5409205.65	5.40	0	D	63	64.4	0.0	0.0	0.0	0.0	45.0	0.0	-3.0	0.0	0.0	7.8	0.0	0.0	14.6
27	1412403.93	5409205.65	5.40	0	D	125	68.2	0.0	0.0	0.0	0.0	45.0	0.0	3.7	0.0	0.0	1.1	0.0	0.0	18.4
27	1412403.93	5409205.65	5.40	0	D	250	71.6	0.0	0.0	0.0	0.0	45.0	0.1	1.3	0.0	0.0	3.6	0.0	0.0	21.7
27	1412403.93	5409205.65	5.40	0	D	500	76.1	0.0	0.0	0.0	0.0	45.0	0.1	0.0	0.0	0.0	5.2	0.0	0.0	25.9
27	1412403.93	5409205.65	5.40	0	D	1000	77.1	0.0	0.0	0.0	0.0	45.0	0.2	0.0	0.0	0.0	5.8	0.0	0.0	26.2
27	1412403.93	5409205.65	5.40	0	D	2000	73.4	0.0	0.0	0.0	0.0	45.0	0.5	0.0	0.0	0.0	6.8	0.0	0.0	21.1
27	1412403.93	5409205.65	5.40	0	D	4000	68.4	0.0	0.0	0.0	0.0	45.0	1.6	0.0	0.0	0.0	8.3	0.0	0.0	13.5
27	1412403.93	5409205.65	5.40	0	D	8000	62.6	0.0	0.0	0.0	0.0	45.0	5.8	0.0	0.0	0.0	10.3	0.0	0.0	1.5
27	1412403.93	5409205.65	5.40	0	N	32	-39.4	0.0	-3.0	0.0	0.0	45.0	0.0	-3.0	0.0	0.0	7.8	0.0	0.0	-92.2
27	1412403.93	5409205.65	5.40	0	N	63	64.4	0.0	-3.0	0.0	0.0	45.0	0.0	-3.0	0.0	0.0	7.8	0.0	0.0	11.6
27	1412403.93	5409205.65	5.40	0	N	125	68.2	0.0	-3.0	0.0	0.0	45.0	0.0	3.7	0.0	0.0	1.1	0.0	0.0	15.4
27	1412403.93	5409205.65	5.40	0	N	250	71.6	0.0	-3.0	0.0	0.0	45.0	0.1	1.3	0.0	0.0	3.6	0.0	0.0	18.7
27	1412403.93	5409205.65	5.40	0	N	500	76.1	0.0	-3.0	0.0	0.0	45.0	0.1	0.0	0.0	0.0	5.2	0.0	0.0	22.9
27	1412403.93	5409205.65	5.40	0	N	1000	77.1	0.0	-3.0	0.0	0.0	45.0	0.2	0.0	0.0	0.0	5.8	0.0	0.0	23.2
27	1412403.93	5409205.65	5.40	0	N	2000	73.4	0.0	-3.0	0.0	0.0	45.0	0.5	0.0	0.0	0.0	6.8	0.0	0.0	18.1
27	1412403.93	5409205.65	5.40	0	N	4000	68.4	0.0	-3.0	0.0	0.0	45.0	1.6	0.0	0.0	0.0	8.3	0.0	0.0	10.5
27	1412403.93	5409205.65	5.40	0	N	8000	62.6	0.0	-3.0	0.0	0.0	45.0	5.8	0.0	0.0	0.0	10.3	0.0	0.0	-1.5
27	1412403.93	5409205.65	5.40	0	E	32	-39.4	0.0	0.0	0.0	0.0	45.0	0.0	-3.0	0.0	0.0	7.8	0.0	0.0	-89.2
27	1412403.93	5409205.65	5.40	0	E	63	64.4	0.0	0.0	0.0	0.0	45.0	0.0	-3.0	0.0	0.0	7.8	0.0	0.0	14.6
27	1412403.93	5409205.65	5.40	0	E	125	68.2	0.0	0.0	0.0	0.0	45.0	0.0	3.7	0.0	0.0	1.1	0.0	0.0	18.4
27	1412403.93	5409205.65	5.40	0	E	250	71.6	0.0	0.0	0.0	0.0	45.0	0.1	1.3	0.0	0.0	3.6	0.0	0.0	21.7
27	1412403.93	5409205.65	5.40	0	E	500	76.1	0.0	0.0	0.0	0.0	45.0	0.1	0.0	0.0	0.0	5.2	0.0	0.0	25.9
27	1412403.93	5409205.65	5.40	0	E	1000	77.1	0.0	0.0	0.0	0.0	45.0	0.2	0.0	0.0	0.0	5.8	0.0	0.0	26.2
27	1412403.93	5409205.65	5.40	0	E	2000	73.4	0.0	0.0	0.0	0.0	45.0	0.5	0.0	0.0	0.0	6.8	0.0	0.0	21.1
27	1412403.93	5409205.65	5.40	0	E	4000	68.4	0.0	0.0	0.0	0.0	45.0	1.6	0.0	0.0	0.0	8.3	0.0	0.0	13.5
27	1412403.93	5409205.65	5.40	0	E	8000	62.6	0.0	0.0	0.0	0.0	45.0	5.8	0.0	0.0	0.0	10.3	0.0	0.0	1.5
29	1412403.93	5409205.65	5.40	2	D	1000	77.1	0.0	0.0	0.0	0.0	56.7	0.7	-0.4	0.0	0.0	24.4	0.0	4.0	-8.4
29	1412403.93	5409205.65	5.40	2	D	2000	73.4	0.0	0.0	0.0	0.0	56.7	1.9	-0.4	0.0	0.0	25.4	0.0	4.0	-14.2
29	1412403.93	5409205.65	5.40	2	D	4000	68.4	0.0	0.0	0.0	0.0	56.7	6.3	-0.4	0.0	0.0	25.4	0.0	4.0	-23.7
29	1412403.93	5409205.65	5.40	2	D	8000	62.6	0.0	0.0	0.0	0.0	56.7	22.6	-0.4	0.0	0.0	25.4	0.0	4.0	-45.7
29	1412403.93	5409205.65	5.40	2	N	1000	77.1	0.0	-3.0	0.0	0.0	56.7	0.7	-0.4	0.0	0.0	24.4	0.0	4.0	-11.4
29	1412403.93	5409205.65	5.40	2	N	2000	73.4	0.0	-3.0	0.0	0.0	56.7	1.9	-0.4	0.0	0.0	25.4	0.0	4.0	-17.2
29	1412403.93	5409205.65	5.40	2	N	4000	68.4	0.0	-3.0	0.0	0.0	56.7	6.3	-0.4	0.0	0.0	25.4	0.0	4.0	-26.7
29	1412403.93	5409205.65	5.40	2	N	8000	62.6	0.0	-3.0	0.0	0.0	56.7	22.6	-0.4	0.0	0.0	25.4	0.0	4.0	-48.7
29	1412403.93	5409205.65	5.40	2	E	1000	77.1	0.0	0.0	0.0	0.0	56.7	0.7	-0.4	0.0	0.0	24.4	0.0	4.0	-8.4
29	1412403.93	5409205.65	5.40	2	E	2000	73.4	0.0	0.0	0.0	0.0	56.7	1.9	-0.4	0.0	0.0	25.4	0.0	4.0	-14.2
29	1412403.93	5409205.65	5.40	2	E	4000	68.4	0.0	0.0	0.0	0.0	56.7	6.3	-0.4	0.0	0.0	25.4	0.0	4.0	-23.7
29	1412403.93	5409205.65	5.40	2	E	8000	62.6	0.0	0.0	0.0	0.0	56.7	22.6	-0.4	0.0	0.0	25.4	0.0	4.0	-45.7
34	1412403.93	5409205.65	5.40	2	D	2000	73.4	0.0	0.0	0.0	0.0	45.8	0.5	0.0	0.0	0.0	6.1	0.0	4.0	17.0
34	1412403.93	5409205.65	5.40	2	D	4000	68.4	0.0	0.0	0.0	0.0	45.8	1.8	0.0	0.0	0.0	7.1	0.0	4.0	9.7
34	1412403.93	5409205.65	5.40	2	D	8000	62.6	0.0	0.0	0.0	0.0	45.8	6.5	0.0	0.0	0.0	8.6	0.0	4.0	-2.3

Point Source, ISO 9613, Name: "CP_RTU1", ID: "CP_RTU1"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB(A))
34	1412403.93	5409205.65	5.40	2	N	2000	73.4	0.0	-3.0	0.0	0.0	45.8	0.5	0.0	0.0	0.0	6.1	0.0	4.0	13.9
34	1412403.93	5409205.65	5.40	2	N	4000	68.4	0.0	-3.0	0.0	0.0	45.8	1.8	0.0	0.0	0.0	7.1	0.0	4.0	6.6
34	1412403.93	5409205.65	5.40	2	N	8000	62.6	0.0	-3.0	0.0	0.0	45.8	6.5	0.0	0.0	0.0	8.6	0.0	4.0	-5.3
34	1412403.93	5409205.65	5.40	2	E	2000	73.4	0.0	0.0	0.0	0.0	45.8	0.5	0.0	0.0	0.0	6.1	0.0	4.0	17.0
34	1412403.93	5409205.65	5.40	2	E	4000	68.4	0.0	0.0	0.0	0.0	45.8	1.8	0.0	0.0	0.0	7.1	0.0	4.0	9.7
34	1412403.93	5409205.65	5.40	2	E	8000	62.6	0.0	0.0	0.0	0.0	45.8	6.5	0.0	0.0	0.0	8.6	0.0	4.0	-2.3
36	1412403.93	5409205.65	5.40	1	D	250	71.6	0.0	0.0	0.0	0.0	45.7	0.1	1.3	0.0	0.0	3.5	0.0	2.0	19.0
36	1412403.93	5409205.65	5.40	1	D	500	76.1	0.0	0.0	0.0	0.0	45.7	0.1	0.0	0.0	0.0	4.8	0.0	2.0	23.5
36	1412403.93	5409205.65	5.40	1	D	1000	77.1	0.0	0.0	0.0	0.0	45.7	0.2	0.0	0.0	0.0	4.9	0.0	2.0	24.3
36	1412403.93	5409205.65	5.40	1	D	2000	73.4	0.0	0.0	0.0	0.0	45.7	0.5	-0.0	0.0	0.0	5.1	0.0	2.0	20.1
36	1412403.93	5409205.65	5.40	1	D	4000	68.4	0.0	0.0	0.0	0.0	45.7	1.8	-0.0	0.0	0.0	5.4	0.0	2.0	13.5
36	1412403.93	5409205.65	5.40	1	D	8000	62.6	0.0	0.0	0.0	0.0	45.7	6.3	-0.0	0.0	0.0	6.2	0.0	2.0	2.3
36	1412403.93	5409205.65	5.40	1	N	250	71.6	0.0	-3.0	0.0	0.0	45.7	0.1	1.3	0.0	0.0	3.5	0.0	2.0	16.0
36	1412403.93	5409205.65	5.40	1	N	500	76.1	0.0	-3.0	0.0	0.0	45.7	0.1	0.0	0.0	0.0	4.8	0.0	2.0	20.4
36	1412403.93	5409205.65	5.40	1	N	1000	77.1	0.0	-3.0	0.0	0.0	45.7	0.2	0.0	0.0	0.0	4.9	0.0	2.0	21.3
36	1412403.93	5409205.65	5.40	1	N	2000	73.4	0.0	-3.0	0.0	0.0	45.7	0.5	-0.0	0.0	0.0	5.1	0.0	2.0	17.1
36	1412403.93	5409205.65	5.40	1	N	4000	68.4	0.0	-3.0	0.0	0.0	45.7	1.8	-0.0	0.0	0.0	5.4	0.0	2.0	10.5
36	1412403.93	5409205.65	5.40	1	N	8000	62.6	0.0	-3.0	0.0	0.0	45.7	6.3	-0.0	0.0	0.0	6.2	0.0	2.0	-0.7
36	1412403.93	5409205.65	5.40	1	E	250	71.6	0.0	0.0	0.0	0.0	45.7	0.1	1.3	0.0	0.0	3.5	0.0	2.0	19.0
36	1412403.93	5409205.65	5.40	1	E	500	76.1	0.0	0.0	0.0	0.0	45.7	0.1	0.0	0.0	0.0	4.8	0.0	2.0	23.5
36	1412403.93	5409205.65	5.40	1	E	1000	77.1	0.0	0.0	0.0	0.0	45.7	0.2	0.0	0.0	0.0	4.9	0.0	2.0	24.3
36	1412403.93	5409205.65	5.40	1	E	2000	73.4	0.0	0.0	0.0	0.0	45.7	0.5	-0.0	0.0	0.0	5.1	0.0	2.0	20.1
36	1412403.93	5409205.65	5.40	1	E	4000	68.4	0.0	0.0	0.0	0.0	45.7	1.8	-0.0	0.0	0.0	5.4	0.0	2.0	13.5
36	1412403.93	5409205.65	5.40	1	E	8000	62.6	0.0	0.0	0.0	0.0	45.7	6.3	-0.0	0.0	0.0	6.2	0.0	2.0	2.3
44	1412403.93	5409205.65	5.40	2	D	500	76.1	0.0	0.0	0.0	0.0	46.1	0.1	0.0	0.0	0.0	0.0	0.0	4.0	25.9
44	1412403.93	5409205.65	5.40	2	D	1000	77.1	0.0	0.0	0.0	0.0	46.1	0.2	0.0	0.0	0.0	0.0	0.0	4.0	26.8
44	1412403.93	5409205.65	5.40	2	D	2000	73.4	0.0	0.0	0.0	0.0	46.1	0.5	0.0	0.0	0.0	0.0	0.0	4.0	22.8
44	1412403.93	5409205.65	5.40	2	D	4000	68.4	0.0	0.0	0.0	0.0	46.1	1.9	0.0	0.0	0.0	0.0	0.0	4.0	16.5
44	1412403.93	5409205.65	5.40	2	D	8000	62.6	0.0	0.0	0.0	0.0	46.1	6.6	0.0	0.0	0.0	0.0	0.0	4.0	5.9
44	1412403.93	5409205.65	5.40	2	N	500	76.1	0.0	-3.0	0.0	0.0	46.1	0.1	0.0	0.0	0.0	0.0	0.0	4.0	22.9
44	1412403.93	5409205.65	5.40	2	N	1000	77.1	0.0	-3.0	0.0	0.0	46.1	0.2	0.0	0.0	0.0	0.0	0.0	4.0	23.8
44	1412403.93	5409205.65	5.40	2	N	2000	73.4	0.0	-3.0	0.0	0.0	46.1	0.5	0.0	0.0	0.0	0.0	0.0	4.0	19.8
44	1412403.93	5409205.65	5.40	2	N	4000	68.4	0.0	-3.0	0.0	0.0	46.1	1.9	0.0	0.0	0.0	0.0	0.0	4.0	13.5
44	1412403.93	5409205.65	5.40	2	N	8000	62.6	0.0	-3.0	0.0	0.0	46.1	6.6	0.0	0.0	0.0	0.0	0.0	4.0	2.9
44	1412403.93	5409205.65	5.40	2	E	500	76.1	0.0	0.0	0.0	0.0	46.1	0.1	0.0	0.0	0.0	0.0	0.0	4.0	25.9
44	1412403.93	5409205.65	5.40	2	E	1000	77.1	0.0	0.0	0.0	0.0	46.1	0.2	0.0	0.0	0.0	0.0	0.0	4.0	26.8
44	1412403.93	5409205.65	5.40	2	E	2000	73.4	0.0	0.0	0.0	0.0	46.1	0.5	0.0	0.0	0.0	0.0	0.0	4.0	22.8
44	1412403.93	5409205.65	5.40	2	E	4000	68.4	0.0	0.0	0.0	0.0	46.1	1.9	0.0	0.0	0.0	0.0	0.0	4.0	16.5
44	1412403.93	5409205.65	5.40	2	E	8000	62.6	0.0	0.0	0.0	0.0	46.1	6.6	0.0	0.0	0.0	0.0	0.0	4.0	5.9

Point Source, ISO 9613, Name: "CP_RTU4", ID: "CP_RTU4"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB(A))
51	1412435.81	5409218.70	5.30	0	D	32	-39.4	0.0	0.0	0.0	0.0	41.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-77.4
51	1412435.81	5409218.70	5.30	0	D	63	58.5	0.0	0.0	0.0	0.0	41.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	20.5
51	1412435.81	5409218.70	5.30	0	D	125	67.5	0.0	0.0	0.0	0.0	41.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	24.6
51	1412435.81	5409218.70	5.30	0	D	250	68.5	0.0	0.0	0.0	0.0	41.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	27.1
51	1412435.81	5409218.70	5.30	0	D	500	71.4	0.0	0.0	0.0	0.0	41.0	0.1	-0.4	0.0	0.0	0.0	0.0	0.0	30.8
51	1412435.81	5409218.70	5.30	0	D	1000	72.3	0.0	0.0	0.0	0.0	41.0	0.1	-0.4	0.0	0.0	0.0	0.0	0.0	31.6
51	1412435.81	5409218.70	5.30	0	D	2000	69.5	0.0	0.0	0.0	0.0	41.0	0.3	-0.4	0.0	0.0	0.0	0.0	0.0	28.6
51	1412435.81	5409218.70	5.30	0	D	4000	65.7	0.0	0.0	0.0	0.0	41.0	1.0	-0.4	0.0	0.0	0.0	0.0	0.0	24.1
51	1412435.81	5409218.70	5.30	0	D	8000	59.8	0.0	0.0	0.0	0.0	41.0	3.7	-0.4	0.0	0.0	0.0	0.0	0.0	15.5
51	1412435.81	5409218.70	5.30	0	N	32	-39.4	0.0	-3.0	0.0	0.0	41.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-80.4
51	1412435.81	5409218.70	5.30	0	N	63	58.5	0.0	-3.0	0.0	0.0	41.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	17.5
51	1412435.81	5409218.70	5.30	0	N	125	67.5	0.0	-3.0	0.0	0.0	41.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	21.5
51	1412435.81	5409218.70	5.30	0	N	250	68.5	0.0	-3.0	0.0	0.0	41.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	24.0
51	1412435.81	5409218.70	5.30	0	N	500	71.4	0.0	-3.0	0.0	0.0	41.0	0.1	-0.4	0.0	0.0	0.0	0.0	0.0	27.8
51	1412435.81	5409218.70	5.30	0	N	1000	72.3	0.0	-3.0	0.0	0.0	41.0	0.1	-0.4	0.0	0.0	0.0	0.0	0.0	28.6
51	1412435.81	5409218.70	5.30	0	N	2000	69.5	0.0	-3.0	0.0	0.0	41.0	0.3	-0.4	0.0	0.0	0.0	0.0	0.0	25.6
51	1412435.81	5409218.70	5.30	0	N	4000	65.7	0.0	-3.0	0.0	0.0	41.0	1.0	-0.4	0.0	0.0	0.0	0.0	0.0	21.1
51	1412435.81	5409218.70	5.30	0	N	8000	59.8	0.0	-3.0	0.0	0.0	41.0	3.7	-0.4	0.0	0.0	0.0	0.0	0.0	12.5
51	1412435.81	5409218.70	5.30	0	E	32	-39.4	0.0	0.0	0.0	0.0	41.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-77.4
51	1412435.81	5409218.70	5.30	0	E	63	58.5	0.0	0.0	0.0	0.0	41.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	20.5

Point Source, ISO 9613, Name: "CP_RTU4", ID: "CP_RTU4"																				
Nr.	X	Y	Z	Ref.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)
51	1412435.81	5409218.70	5.30	0	E	125	67.5	0.0	0.0	0.0	0.0	41.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	24.6
51	1412435.81	5409218.70	5.30	0	E	250	68.5	0.0	0.0	0.0	0.0	41.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	27.1
51	1412435.81	5409218.70	5.30	0	E	500	71.4	0.0	0.0	0.0	0.0	41.0	0.1	-0.4	0.0	0.0	0.0	0.0	0.0	30.8
51	1412435.81	5409218.70	5.30	0	E	1000	72.3	0.0	0.0	0.0	0.0	41.0	0.1	-0.4	0.0	0.0	0.0	0.0	0.0	31.6
51	1412435.81	5409218.70	5.30	0	E	2000	69.5	0.0	0.0	0.0	0.0	41.0	0.3	-0.4	0.0	0.0	0.0	0.0	0.0	28.6
51	1412435.81	5409218.70	5.30	0	E	4000	65.7	0.0	0.0	0.0	0.0	41.0	1.0	-0.4	0.0	0.0	0.0	0.0	0.0	24.1
51	1412435.81	5409218.70	5.30	0	E	8000	59.8	0.0	0.0	0.0	0.0	41.0	3.7	-0.4	0.0	0.0	0.0	0.0	0.0	15.5
57	1412435.81	5409218.70	5.30	2	D	500	71.4	0.0	0.0	0.0	0.0	43.3	0.1	-0.5	0.0	0.0	0.0	0.0	4.0	24.5
57	1412435.81	5409218.70	5.30	2	D	1000	72.3	0.0	0.0	0.0	0.0	43.3	0.2	-0.5	0.0	0.0	0.0	0.0	4.0	25.4
57	1412435.81	5409218.70	5.30	2	D	2000	69.5	0.0	0.0	0.0	0.0	43.3	0.4	-0.5	0.0	0.0	0.0	0.0	4.0	22.3
57	1412435.81	5409218.70	5.30	2	D	4000	65.7	0.0	0.0	0.0	0.0	43.3	1.3	-0.5	0.0	0.0	0.0	0.0	4.0	17.6
57	1412435.81	5409218.70	5.30	2	D	8000	59.8	0.0	0.0	0.0	0.0	43.3	4.8	-0.5	0.0	0.0	0.0	0.0	4.0	8.2
57	1412435.81	5409218.70	5.30	2	N	500	71.4	0.0	-3.0	0.0	0.0	43.3	0.1	-0.5	0.0	0.0	0.0	0.0	4.0	21.5
57	1412435.81	5409218.70	5.30	2	N	1000	72.3	0.0	-3.0	0.0	0.0	43.3	0.2	-0.5	0.0	0.0	0.0	0.0	4.0	22.4
57	1412435.81	5409218.70	5.30	2	N	2000	69.5	0.0	-3.0	0.0	0.0	43.3	0.4	-0.5	0.0	0.0	0.0	0.0	4.0	19.3
57	1412435.81	5409218.70	5.30	2	N	4000	65.7	0.0	-3.0	0.0	0.0	43.3	1.3	-0.5	0.0	0.0	0.0	0.0	4.0	14.6
57	1412435.81	5409218.70	5.30	2	N	8000	59.8	0.0	-3.0	0.0	0.0	43.3	4.8	-0.5	0.0	0.0	0.0	0.0	4.0	5.2
57	1412435.81	5409218.70	5.30	2	E	500	71.4	0.0	0.0	0.0	0.0	43.3	0.1	-0.5	0.0	0.0	0.0	0.0	4.0	24.5
57	1412435.81	5409218.70	5.30	2	E	1000	72.3	0.0	0.0	0.0	0.0	43.3	0.2	-0.5	0.0	0.0	0.0	0.0	4.0	25.4
57	1412435.81	5409218.70	5.30	2	E	2000	69.5	0.0	0.0	0.0	0.0	43.3	0.4	-0.5	0.0	0.0	0.0	0.0	4.0	22.3
57	1412435.81	5409218.70	5.30	2	E	4000	65.7	0.0	0.0	0.0	0.0	43.3	1.3	-0.5	0.0	0.0	0.0	0.0	4.0	17.6
57	1412435.81	5409218.70	5.30	2	E	8000	59.8	0.0	0.0	0.0	0.0	43.3	4.8	-0.5	0.0	0.0	0.0	0.0	4.0	8.2
63	1412435.81	5409218.70	5.30	1	D	63	58.5	0.0	0.0	0.0	0.0	41.3	0.0	-3.0	0.0	0.0	7.8	0.0	2.0	10.3
63	1412435.81	5409218.70	5.30	1	D	125	67.5	0.0	0.0	0.0	0.0	41.3	0.0	2.4	0.0	0.0	2.5	0.0	2.0	19.3
63	1412435.81	5409218.70	5.30	1	D	250	68.5	0.0	0.0	0.0	0.0	41.3	0.0	0.7	0.0	0.0	4.3	0.0	2.0	20.2
63	1412435.81	5409218.70	5.30	1	D	500	71.4	0.0	0.0	0.0	0.0	41.3	0.1	-0.2	0.0	0.0	5.4	0.0	2.0	22.8
63	1412435.81	5409218.70	5.30	1	D	1000	72.3	0.0	0.0	0.0	0.0	41.3	0.1	-0.2	0.0	0.0	5.8	0.0	2.0	23.3
63	1412435.81	5409218.70	5.30	1	D	2000	69.5	0.0	0.0	0.0	0.0	41.3	0.3	-0.2	0.0	0.0	6.4	0.0	2.0	19.7
63	1412435.81	5409218.70	5.30	1	D	4000	65.7	0.0	0.0	0.0	0.0	41.3	1.1	-0.2	0.0	0.0	7.5	0.0	2.0	14.0
63	1412435.81	5409218.70	5.30	1	D	8000	59.8	0.0	0.0	0.0	0.0	41.3	3.8	-0.2	0.0	0.0	9.1	0.0	2.0	3.8
63	1412435.81	5409218.70	5.30	1	N	63	58.5	0.0	-3.0	0.0	0.0	41.3	0.0	-3.0	0.0	0.0	7.8	0.0	2.0	7.3
63	1412435.81	5409218.70	5.30	1	N	125	67.5	0.0	-3.0	0.0	0.0	41.3	0.0	2.4	0.0	0.0	2.5	0.0	2.0	16.3
63	1412435.81	5409218.70	5.30	1	N	250	68.5	0.0	-3.0	0.0	0.0	41.3	0.0	0.7	0.0	0.0	4.3	0.0	2.0	17.2
63	1412435.81	5409218.70	5.30	1	N	500	71.4	0.0	-3.0	0.0	0.0	41.3	0.1	-0.2	0.0	0.0	5.4	0.0	2.0	19.8
63	1412435.81	5409218.70	5.30	1	N	1000	72.3	0.0	-3.0	0.0	0.0	41.3	0.1	-0.2	0.0	0.0	5.8	0.0	2.0	20.3
63	1412435.81	5409218.70	5.30	1	N	2000	69.5	0.0	-3.0	0.0	0.0	41.3	0.3	-0.2	0.0	0.0	6.4	0.0	2.0	16.6
63	1412435.81	5409218.70	5.30	1	N	4000	65.7	0.0	-3.0	0.0	0.0	41.3	1.1	-0.2	0.0	0.0	7.5	0.0	2.0	11.0
63	1412435.81	5409218.70	5.30	1	N	8000	59.8	0.0	-3.0	0.0	0.0	41.3	3.8	-0.2	0.0	0.0	9.1	0.0	2.0	0.8
63	1412435.81	5409218.70	5.30	1	E	63	58.5	0.0	0.0	0.0	0.0	41.3	0.0	-3.0	0.0	0.0	7.8	0.0	2.0	10.3
63	1412435.81	5409218.70	5.30	1	E	125	67.5	0.0	0.0	0.0	0.0	41.3	0.0	2.4	0.0	0.0	2.5	0.0	2.0	19.3
63	1412435.81	5409218.70	5.30	1	E	250	68.5	0.0	0.0	0.0	0.0	41.3	0.0	0.7	0.0	0.0	4.3	0.0	2.0	20.2
63	1412435.81	5409218.70	5.30	1	E	500	71.4	0.0	0.0	0.0	0.0	41.3	0.1	-0.2	0.0	0.0	5.4	0.0	2.0	22.8
63	1412435.81	5409218.70	5.30	1	E	1000	72.3	0.0	0.0	0.0	0.0	41.3	0.1	-0.2	0.0	0.0	5.8	0.0	2.0	23.3
63	1412435.81	5409218.70	5.30	1	E	2000	69.5	0.0	0.0	0.0	0.0	41.3	0.3	-0.2	0.0	0.0	6.4	0.0	2.0	19.7
63	1412435.81	5409218.70	5.30	1	E	4000	65.7	0.0	0.0	0.0	0.0	41.3	1.1	-0.2	0.0	0.0	7.5	0.0	2.0	14.0
63	1412435.81	5409218.70	5.30	1	E	8000	59.8	0.0	0.0	0.0	0.0	41.3	3.8	-0.2	0.0	0.0	9.1	0.0	2.0	3.8
67	1412435.81	5409218.70	5.30	1	D	2000	69.5	0.0	0.0	0.0	0.0	50.0	0.9	0.0	0.0	0.0	9.6	0.0	2.0	7.1
67	1412435.81	5409218.70	5.30	1	D	4000	65.7	0.0	0.0	0.0	0.0	50.0	2.9	0.0	0.0	0.0	11.8	0.0	2.0	-1.0
67	1412435.81	5409218.70	5.30	1	D	8000	59.8	0.0	0.0	0.0	0.0	50.0	10.4	0.0	0.0	0.0	14.4	0.0	2.0	-16.9
67	1412435.81	5409218.70	5.30	1	N	2000	69.5	0.0	-3.0	0.0	0.0	50.0	0.9	0.0	0.0	0.0	9.6	0.0	2.0	4.1
67	1412435.81	5409218.70	5.30	1	N	4000	65.7	0.0	-3.0	0.0	0.0	50.0	2.9	0.0	0.0	0.0	11.8	0.0	2.0	-4.0
67	1412435.81	5409218.70	5.30	1	N	8000	59.8	0.0	-3.0	0.0	0.0	50.0	10.4	0.0	0.0	0.0	14.4	0.0	2.0	-19.9
67	1412435.81	5409218.70	5.30	1	E	2000	69.5	0.0	0.0	0.0	0.0	50.0	0.9	0.0	0.0	0.0	9.6	0.0	2.0	7.1
67	1412435.81	5409218.70	5.30	1	E	4000	65.7	0.0	0.0	0.0	0.0	50.0	2.9	0.0	0.0	0.0	11.8	0.0	2.0	-1.0
67	1412435.81	5409218.70	5.30	1	E	8000	59.8	0.0	0.0	0.0	0.0	50.0	10.4	0.0	0.0	0.0	14.4	0.0	2.0	-16.9

Point Source, ISO 9613, Name: "CP_RTU3", ID: "CP_RTU3"																				
Nr.	X	Y	Z	Ref.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)
71	1412436.65	5409210.82	5.20	0	D	32	-39.4	0.0	0.0	0.0	0.0	38.8	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-75.2
71	1412436.65	5409210.82	5.20	0	D	63	52.0	0.0	0.0	0.0	0.0	38.8	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	16.2
71	1412436.65	5409210.82	5.20	0	D	125	61.9	0.0	0.0	0.0	0.0	38.8	0.0	2.3	0.0	0.0	0.0	0.0	0.0	20.7
71	1412436.65	5409210.82	5.20	0	D	250	65.6	0.0	0.0	0.0	0.0	38.8	0.0	0.8	0.0	0.0	0.0	0.0	0.0	25.9

Point Source, ISO 9613, Name: "CP_RTU3", ID: "CP_RTU3"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
71	1412436.65	5409210.82	5.20	0	D	500	70.1	0.0	0.0	0.0	0.0	38.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.2
71	1412436.65	5409210.82	5.20	0	D	1000	70.6	0.0	0.0	0.0	0.0	38.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	31.7
71	1412436.65	5409210.82	5.20	0	D	2000	67.2	0.0	0.0	0.0	0.0	38.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	28.1
71	1412436.65	5409210.82	5.20	0	D	4000	63.4	0.0	0.0	0.0	0.0	38.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	23.7
71	1412436.65	5409210.82	5.20	0	D	8000	55.8	0.0	0.0	0.0	0.0	38.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0	14.1
71	1412436.65	5409210.82	5.20	0	N	32	-39.4	0.0	-3.0	0.0	0.0	38.8	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-78.3
71	1412436.65	5409210.82	5.20	0	N	63	52.0	0.0	-3.0	0.0	0.0	38.8	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	13.1
71	1412436.65	5409210.82	5.20	0	N	125	61.9	0.0	-3.0	0.0	0.0	38.8	0.0	2.3	0.0	0.0	0.0	0.0	0.0	17.7
71	1412436.65	5409210.82	5.20	0	N	250	65.6	0.0	-3.0	0.0	0.0	38.8	0.0	0.8	0.0	0.0	0.0	0.0	0.0	22.9
71	1412436.65	5409210.82	5.20	0	N	500	70.1	0.0	-3.0	0.0	0.0	38.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.2
71	1412436.65	5409210.82	5.20	0	N	1000	70.6	0.0	-3.0	0.0	0.0	38.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	28.7
71	1412436.65	5409210.82	5.20	0	N	2000	67.2	0.0	-3.0	0.0	0.0	38.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	25.1
71	1412436.65	5409210.82	5.20	0	N	4000	63.4	0.0	-3.0	0.0	0.0	38.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	20.7
71	1412436.65	5409210.82	5.20	0	N	8000	55.8	0.0	-3.0	0.0	0.0	38.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0	11.1
71	1412436.65	5409210.82	5.20	0	E	32	-39.4	0.0	0.0	0.0	0.0	38.8	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-75.2
71	1412436.65	5409210.82	5.20	0	E	63	52.0	0.0	0.0	0.0	0.0	38.8	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	16.2
71	1412436.65	5409210.82	5.20	0	E	125	61.9	0.0	0.0	0.0	0.0	38.8	0.0	2.3	0.0	0.0	0.0	0.0	0.0	20.7
71	1412436.65	5409210.82	5.20	0	E	250	65.6	0.0	0.0	0.0	0.0	38.8	0.0	0.8	0.0	0.0	0.0	0.0	0.0	25.9
71	1412436.65	5409210.82	5.20	0	E	500	70.1	0.0	0.0	0.0	0.0	38.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.2
71	1412436.65	5409210.82	5.20	0	E	1000	70.6	0.0	0.0	0.0	0.0	38.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	31.7
71	1412436.65	5409210.82	5.20	0	E	2000	67.2	0.0	0.0	0.0	0.0	38.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	28.1
71	1412436.65	5409210.82	5.20	0	E	4000	63.4	0.0	0.0	0.0	0.0	38.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	23.7
71	1412436.65	5409210.82	5.20	0	E	8000	55.8	0.0	0.0	0.0	0.0	38.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0	14.1
77	1412436.65	5409210.82	5.20	1	D	63	52.0	0.0	0.0	0.0	0.0	39.4	0.0	-3.0	0.0	0.0	7.9	0.0	2.0	5.7
77	1412436.65	5409210.82	5.20	1	D	125	61.9	0.0	0.0	0.0	0.0	39.4	0.0	2.4	0.0	0.0	2.6	0.0	2.0	15.4
77	1412436.65	5409210.82	5.20	1	D	250	65.6	0.0	0.0	0.0	0.0	39.4	0.0	0.9	0.0	0.0	4.4	0.0	2.0	18.8
77	1412436.65	5409210.82	5.20	1	D	500	70.1	0.0	0.0	0.0	0.0	39.4	0.1	0.0	0.0	0.0	5.8	0.0	2.0	22.8
77	1412436.65	5409210.82	5.20	1	D	1000	70.6	0.0	0.0	0.0	0.0	39.4	0.1	0.0	0.0	0.0	6.6	0.0	2.0	22.5
77	1412436.65	5409210.82	5.20	1	D	2000	67.2	0.0	0.0	0.0	0.0	39.4	0.3	0.0	0.0	0.0	7.9	0.0	2.0	17.6
77	1412436.65	5409210.82	5.20	1	D	4000	63.4	0.0	0.0	0.0	0.0	39.4	0.9	0.0	0.0	0.0	9.7	0.0	2.0	11.4
77	1412436.65	5409210.82	5.20	1	D	8000	55.8	0.0	0.0	0.0	0.0	39.4	3.1	0.0	0.0	0.0	11.9	0.0	2.0	-0.7
77	1412436.65	5409210.82	5.20	1	N	63	52.0	0.0	-3.0	0.0	0.0	39.4	0.0	-3.0	0.0	0.0	7.9	0.0	2.0	2.6
77	1412436.65	5409210.82	5.20	1	N	125	61.9	0.0	-3.0	0.0	0.0	39.4	0.0	2.4	0.0	0.0	2.6	0.0	2.0	12.4
77	1412436.65	5409210.82	5.20	1	N	250	65.6	0.0	-3.0	0.0	0.0	39.4	0.0	0.9	0.0	0.0	4.4	0.0	2.0	15.8
77	1412436.65	5409210.82	5.20	1	N	500	70.1	0.0	-3.0	0.0	0.0	39.4	0.1	0.0	0.0	0.0	5.8	0.0	2.0	19.8
77	1412436.65	5409210.82	5.20	1	N	1000	70.6	0.0	-3.0	0.0	0.0	39.4	0.1	0.0	0.0	0.0	6.6	0.0	2.0	19.5
77	1412436.65	5409210.82	5.20	1	N	2000	67.2	0.0	-3.0	0.0	0.0	39.4	0.3	0.0	0.0	0.0	7.9	0.0	2.0	14.6
77	1412436.65	5409210.82	5.20	1	N	4000	63.4	0.0	-3.0	0.0	0.0	39.4	0.9	0.0	0.0	0.0	9.7	0.0	2.0	8.4
77	1412436.65	5409210.82	5.20	1	N	8000	55.8	0.0	-3.0	0.0	0.0	39.4	3.1	0.0	0.0	0.0	11.9	0.0	2.0	-3.7
77	1412436.65	5409210.82	5.20	1	E	63	52.0	0.0	0.0	0.0	0.0	39.4	0.0	-3.0	0.0	0.0	7.9	0.0	2.0	5.7
77	1412436.65	5409210.82	5.20	1	E	125	61.9	0.0	0.0	0.0	0.0	39.4	0.0	2.4	0.0	0.0	2.6	0.0	2.0	15.4
77	1412436.65	5409210.82	5.20	1	E	250	65.6	0.0	0.0	0.0	0.0	39.4	0.0	0.9	0.0	0.0	4.4	0.0	2.0	18.8
77	1412436.65	5409210.82	5.20	1	E	500	70.1	0.0	0.0	0.0	0.0	39.4	0.1	0.0	0.0	0.0	5.8	0.0	2.0	22.8
77	1412436.65	5409210.82	5.20	1	E	1000	70.6	0.0	0.0	0.0	0.0	39.4	0.1	0.0	0.0	0.0	6.6	0.0	2.0	22.5
77	1412436.65	5409210.82	5.20	1	E	2000	67.2	0.0	0.0	0.0	0.0	39.4	0.3	0.0	0.0	0.0	7.9	0.0	2.0	17.6
77	1412436.65	5409210.82	5.20	1	E	4000	63.4	0.0	0.0	0.0	0.0	39.4	0.9	0.0	0.0	0.0	9.7	0.0	2.0	11.4
77	1412436.65	5409210.82	5.20	1	E	8000	55.8	0.0	0.0	0.0	0.0	39.4	3.1	0.0	0.0	0.0	11.9	0.0	2.0	-0.7
86	1412436.65	5409210.82	5.20	2	D	2000	67.2	0.0	0.0	0.0	0.0	41.3	0.3	-0.2	0.0	0.0	0.0	0.0	4.0	21.8
86	1412436.65	5409210.82	5.20	2	D	4000	63.4	0.0	0.0	0.0	0.0	41.3	1.1	-0.2	0.0	0.0	0.0	0.0	4.0	17.2
86	1412436.65	5409210.82	5.20	2	D	8000	55.8	0.0	0.0	0.0	0.0	41.3	3.8	-0.2	0.0	0.0	0.0	0.0	4.0	6.9
86	1412436.65	5409210.82	5.20	2	N	2000	67.2	0.0	-3.0	0.0	0.0	41.3	0.3	-0.2	0.0	0.0	0.0	0.0	4.0	18.8
86	1412436.65	5409210.82	5.20	2	N	4000	63.4	0.0	-3.0	0.0	0.0	41.3	1.1	-0.2	0.0	0.0	0.0	0.0	4.0	14.2
86	1412436.65	5409210.82	5.20	2	N	8000	55.8	0.0	-3.0	0.0	0.0	41.3	3.8	-0.2	0.0	0.0	0.0	0.0	4.0	3.9
86	1412436.65	5409210.82	5.20	2	E	2000	67.2	0.0	0.0	0.0	0.0	41.3	0.3	-0.2	0.0	0.0	0.0	0.0	4.0	21.8
86	1412436.65	5409210.82	5.20	2	E	4000	63.4	0.0	0.0	0.0	0.0	41.3	1.1	-0.2	0.0	0.0	0.0	0.0	4.0	17.2
86	1412436.65	5409210.82	5.20	2	E	8000	55.8	0.0	0.0	0.0	0.0	41.3	3.8	-0.2	0.0	0.0	0.0	0.0	4.0	6.9

Point Source, ISO 9613, Name: "CP_RTU2", ID: "CP_RTU2"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
92	1412418.00	5409206.94	5.30	0	D	32	-39.4	0.0	0.0	0.0	0.0	42.4	0.0	-3.0	0.0	0.0	3.1	0.0	0.0	-82.0
92	1412418.00	5409206.94	5.30	0	D	63	58.5	0.0	0.0	0.0	0.0	42.4	0.0	-3.0	0.0	0.0	3.3	0.0	0.0	15.8
92	1412418.00	5409206.94	5.30	0	D	125	67.5	0.0	0.0	0.0	0.0	42.4	0.0	3.1	0.0	0.0	0.2	0.0	0.0	21.7

Point Source, ISO 9613, Name: "CP_RTU2", ID: "CP_RTU2"																				
Nr.	X	Y	Z	Ref.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahou	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)
92	1412418.00	5409206.94	5.30	0	D	250	68.5	0.0	0.0	0.0	0.0	42.4	0.0	1.1	0.0	0.0	1.8	0.0	0.0	23.1
92	1412418.00	5409206.94	5.30	0	D	500	71.4	0.0	0.0	0.0	0.0	42.4	0.1	0.0	0.0	0.0	3.0	0.0	0.0	25.9
92	1412418.00	5409206.94	5.30	0	D	1000	72.3	0.0	0.0	0.0	0.0	42.4	0.1	0.0	0.0	0.0	4.0	0.0	0.0	25.7
92	1412418.00	5409206.94	5.30	0	D	2000	69.5	0.0	0.0	0.0	0.0	42.4	0.4	0.0	0.0	0.0	5.7	0.0	0.0	21.0
92	1412418.00	5409206.94	5.30	0	D	4000	65.7	0.0	0.0	0.0	0.0	42.4	1.2	0.0	0.0	0.0	8.0	0.0	0.0	14.0
92	1412418.00	5409206.94	5.30	0	D	8000	59.8	0.0	0.0	0.0	0.0	42.4	4.4	0.0	0.0	0.0	10.7	0.0	0.0	2.4
92	1412418.00	5409206.94	5.30	0	N	32	-39.4	0.0	-3.0	0.0	0.0	42.4	0.0	-3.0	0.0	0.0	3.1	0.0	0.0	-85.0
92	1412418.00	5409206.94	5.30	0	N	63	58.5	0.0	-3.0	0.0	0.0	42.4	0.0	-3.0	0.0	0.0	3.3	0.0	0.0	12.8
92	1412418.00	5409206.94	5.30	0	N	125	67.5	0.0	-3.0	0.0	0.0	42.4	0.0	3.1	0.0	0.0	0.2	0.0	0.0	18.7
92	1412418.00	5409206.94	5.30	0	N	250	68.5	0.0	-3.0	0.0	0.0	42.4	0.0	1.1	0.0	0.0	1.8	0.0	0.0	20.1
92	1412418.00	5409206.94	5.30	0	N	500	71.4	0.0	-3.0	0.0	0.0	42.4	0.1	0.0	0.0	0.0	3.0	0.0	0.0	22.9
92	1412418.00	5409206.94	5.30	0	N	1000	72.3	0.0	-3.0	0.0	0.0	42.4	0.1	0.0	0.0	0.0	4.0	0.0	0.0	22.7
92	1412418.00	5409206.94	5.30	0	N	2000	69.5	0.0	-3.0	0.0	0.0	42.4	0.4	0.0	0.0	0.0	5.7	0.0	0.0	18.0
92	1412418.00	5409206.94	5.30	0	N	4000	65.7	0.0	-3.0	0.0	0.0	42.4	1.2	0.0	0.0	0.0	8.0	0.0	0.0	11.0
92	1412418.00	5409206.94	5.30	0	N	8000	59.8	0.0	-3.0	0.0	0.0	42.4	4.4	0.0	0.0	0.0	10.7	0.0	0.0	-0.6
92	1412418.00	5409206.94	5.30	0	E	32	-39.4	0.0	0.0	0.0	0.0	42.4	0.0	-3.0	0.0	0.0	3.1	0.0	0.0	-82.0
92	1412418.00	5409206.94	5.30	0	E	63	58.5	0.0	0.0	0.0	0.0	42.4	0.0	-3.0	0.0	0.0	3.3	0.0	0.0	15.8
92	1412418.00	5409206.94	5.30	0	E	125	67.5	0.0	0.0	0.0	0.0	42.4	0.0	3.1	0.0	0.0	0.2	0.0	0.0	21.7
92	1412418.00	5409206.94	5.30	0	E	250	68.5	0.0	0.0	0.0	0.0	42.4	0.0	1.1	0.0	0.0	1.8	0.0	0.0	23.1
92	1412418.00	5409206.94	5.30	0	E	500	71.4	0.0	0.0	0.0	0.0	42.4	0.1	0.0	0.0	0.0	3.0	0.0	0.0	25.9
92	1412418.00	5409206.94	5.30	0	E	1000	72.3	0.0	0.0	0.0	0.0	42.4	0.1	0.0	0.0	0.0	4.0	0.0	0.0	25.7
92	1412418.00	5409206.94	5.30	0	E	2000	69.5	0.0	0.0	0.0	0.0	42.4	0.4	0.0	0.0	0.0	5.7	0.0	0.0	21.0
92	1412418.00	5409206.94	5.30	0	E	4000	65.7	0.0	0.0	0.0	0.0	42.4	1.2	0.0	0.0	0.0	8.0	0.0	0.0	14.0
92	1412418.00	5409206.94	5.30	0	E	8000	59.8	0.0	0.0	0.0	0.0	42.4	4.4	0.0	0.0	0.0	10.7	0.0	0.0	2.4
96	1412418.00	5409206.94	5.30	1	D	500	71.4	0.0	0.0	0.0	0.0	42.7	0.1	0.0	0.0	0.0	5.5	0.0	2.0	21.2
96	1412418.00	5409206.94	5.30	1	D	1000	72.3	0.0	0.0	0.0	0.0	42.7	0.1	0.0	0.0	0.0	6.5	0.0	2.0	21.0
96	1412418.00	5409206.94	5.30	1	D	2000	69.5	0.0	0.0	0.0	0.0	42.7	0.4	0.0	0.0	0.0	8.1	0.0	2.0	16.4
96	1412418.00	5409206.94	5.30	1	D	4000	65.7	0.0	0.0	0.0	0.0	42.7	1.3	0.0	0.0	0.0	10.1	0.0	2.0	9.7
96	1412418.00	5409206.94	5.30	1	D	8000	59.8	0.0	0.0	0.0	0.0	42.7	4.5	0.0	0.0	0.0	12.4	0.0	2.0	-1.8
96	1412418.00	5409206.94	5.30	1	N	500	71.4	0.0	-3.0	0.0	0.0	42.7	0.1	0.0	0.0	0.0	5.5	0.0	2.0	18.1
96	1412418.00	5409206.94	5.30	1	N	1000	72.3	0.0	-3.0	0.0	0.0	42.7	0.1	0.0	0.0	0.0	6.5	0.0	2.0	17.9
96	1412418.00	5409206.94	5.30	1	N	2000	69.5	0.0	-3.0	0.0	0.0	42.7	0.4	0.0	0.0	0.0	8.1	0.0	2.0	13.4
96	1412418.00	5409206.94	5.30	1	N	4000	65.7	0.0	-3.0	0.0	0.0	42.7	1.3	0.0	0.0	0.0	10.1	0.0	2.0	6.7
96	1412418.00	5409206.94	5.30	1	N	8000	59.8	0.0	-3.0	0.0	0.0	42.7	4.5	0.0	0.0	0.0	12.4	0.0	2.0	-4.8
96	1412418.00	5409206.94	5.30	1	E	500	71.4	0.0	0.0	0.0	0.0	42.7	0.1	0.0	0.0	0.0	5.5	0.0	2.0	21.2
96	1412418.00	5409206.94	5.30	1	E	1000	72.3	0.0	0.0	0.0	0.0	42.7	0.1	0.0	0.0	0.0	6.5	0.0	2.0	21.0
96	1412418.00	5409206.94	5.30	1	E	2000	69.5	0.0	0.0	0.0	0.0	42.7	0.4	0.0	0.0	0.0	8.1	0.0	2.0	16.4
96	1412418.00	5409206.94	5.30	1	E	4000	65.7	0.0	0.0	0.0	0.0	42.7	1.3	0.0	0.0	0.0	10.1	0.0	2.0	9.7
96	1412418.00	5409206.94	5.30	1	E	8000	59.8	0.0	0.0	0.0	0.0	42.7	4.5	0.0	0.0	0.0	12.4	0.0	2.0	-1.8
101	1412418.00	5409206.94	5.30	2	D	500	71.4	0.0	0.0	0.0	0.0	43.1	0.1	0.0	0.0	0.0	5.2	0.0	4.0	19.0
101	1412418.00	5409206.94	5.30	2	D	1000	72.3	0.0	0.0	0.0	0.0	43.1	0.1	0.0	0.0	0.0	5.9	0.0	4.0	19.2
101	1412418.00	5409206.94	5.30	2	D	2000	69.5	0.0	0.0	0.0	0.0	43.1	0.4	0.0	0.0	0.0	7.2	0.0	4.0	14.8
101	1412418.00	5409206.94	5.30	2	D	4000	65.7	0.0	0.0	0.0	0.0	43.1	1.3	0.0	0.0	0.0	9.1	0.0	4.0	8.2
101	1412418.00	5409206.94	5.30	2	D	8000	59.8	0.0	0.0	0.0	0.0	43.1	4.7	0.0	0.0	0.0	11.3	0.0	4.0	-3.3
101	1412418.00	5409206.94	5.30	2	N	500	71.4	0.0	-3.0	0.0	0.0	43.1	0.1	0.0	0.0	0.0	5.2	0.0	4.0	16.0
101	1412418.00	5409206.94	5.30	2	N	1000	72.3	0.0	-3.0	0.0	0.0	43.1	0.1	0.0	0.0	0.0	5.9	0.0	4.0	16.2
101	1412418.00	5409206.94	5.30	2	N	2000	69.5	0.0	-3.0	0.0	0.0	43.1	0.4	0.0	0.0	0.0	7.2	0.0	4.0	11.8
101	1412418.00	5409206.94	5.30	2	N	4000	65.7	0.0	-3.0	0.0	0.0	43.1	1.3	0.0	0.0	0.0	9.1	0.0	4.0	5.2
101	1412418.00	5409206.94	5.30	2	N	8000	59.8	0.0	-3.0	0.0	0.0	43.1	4.7	0.0	0.0	0.0	11.3	0.0	4.0	-6.3
101	1412418.00	5409206.94	5.30	2	E	500	71.4	0.0	0.0	0.0	0.0	43.1	0.1	0.0	0.0	0.0	5.2	0.0	4.0	19.0
101	1412418.00	5409206.94	5.30	2	E	1000	72.3	0.0	0.0	0.0	0.0	43.1	0.1	0.0	0.0	0.0	5.9	0.0	4.0	19.2
101	1412418.00	5409206.94	5.30	2	E	2000	69.5	0.0	0.0	0.0	0.0	43.1	0.4	0.0	0.0	0.0	7.2	0.0	4.0	14.8
101	1412418.00	5409206.94	5.30	2	E	4000	65.7	0.0	0.0	0.0	0.0	43.1	1.3	0.0	0.0	0.0	9.1	0.0	4.0	8.2
101	1412418.00	5409206.94	5.30	2	E	8000	59.8	0.0	0.0	0.0	0.0	43.1	4.7	0.0	0.0	0.0	11.3	0.0	4.0	-3.3
105	1412418.00	5409206.94	5.30	1	D	125	67.5	0.0	0.0	0.0	0.0	42.9	0.0	3.2	0.0	0.0	0.0	0.0	2.0	19.4
105	1412418.00	5409206.94	5.30	1	D	250	68.5	0.0	0.0	0.0	0.0	42.9	0.0	1.1	0.0	0.0	0.0	0.0	2.0	22.5
105	1412418.00	5409206.94	5.30	1	D	500	71.4	0.0	0.0	0.0	0.0	42.9	0.1	0.0	0.0	0.0	0.0	0.0	2.0	26.5
105	1412418.00	5409206.94	5.30	1	D	1000	72.3	0.0	0.0	0.0	0.0	42.9	0.1	0.0	0.0	0.0	0.0	0.0	2.0	27.3
105	1412418.00	5409206.94	5.30	1	D	2000	69.5	0.0	0.0	0.0	0.0	42.9	0.4	0.0	0.0	0.0	0.0	0.0	2.0	24.3
105	1412418.00	5409206.94	5.30	1	D	4000	65.7	0.0	0.0	0.0	0.0	42.9	1.3	0.0	0.0	0.0	0.0	0.0	2.0	19.5
105	1412418.00	5409206.94	5.30	1	D	8000	59.8	0.0	0.0	0.0	0.0	42.9	4.6	0.0	0.0	0.0	0.0	0.0	2.0	10.3
105	1412418.00	5409206.94	5.30	1	N	125	67.5	0.0	-3.0	0.0	0.0	42.9	0.0	3.2	0.0	0.0	0.0	0.0	2.0	16.4
105	1412418.00	5409206.94	5.30	1	N	250	68.5	0.0	-3.0	0.0	0.0	42.9	0.0	1.1	0.0	0.0	0.0	0.0	2.0	19.5

Point Source, ISO 9613, Name: "CP_RTU2", ID: "CP_RTU2"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)
105	1412418.00	5409206.94	5.30	1	N	500	71.4	0.0	-3.0	0.0	0.0	42.9	0.1	0.0	0.0	0.0	0.0	0.0	2.0	23.4
105	1412418.00	5409206.94	5.30	1	N	1000	72.3	0.0	-3.0	0.0	0.0	42.9	0.1	0.0	0.0	0.0	0.0	0.0	2.0	24.3
105	1412418.00	5409206.94	5.30	1	N	2000	69.5	0.0	-3.0	0.0	0.0	42.9	0.4	0.0	0.0	0.0	0.0	0.0	2.0	21.2
105	1412418.00	5409206.94	5.30	1	N	4000	65.7	0.0	-3.0	0.0	0.0	42.9	1.3	0.0	0.0	0.0	0.0	0.0	2.0	16.5
105	1412418.00	5409206.94	5.30	1	N	8000	59.8	0.0	-3.0	0.0	0.0	42.9	4.6	0.0	0.0	0.0	0.0	0.0	2.0	7.3
105	1412418.00	5409206.94	5.30	1	E	125	67.5	0.0	0.0	0.0	0.0	42.9	0.0	3.2	0.0	0.0	0.0	0.0	2.0	19.4
105	1412418.00	5409206.94	5.30	1	E	250	68.5	0.0	0.0	0.0	0.0	42.9	0.0	1.1	0.0	0.0	0.0	0.0	2.0	22.5
105	1412418.00	5409206.94	5.30	1	E	500	71.4	0.0	0.0	0.0	0.0	42.9	0.1	0.0	0.0	0.0	0.0	0.0	2.0	26.5
105	1412418.00	5409206.94	5.30	1	E	1000	72.3	0.0	0.0	0.0	0.0	42.9	0.1	0.0	0.0	0.0	0.0	0.0	2.0	27.3
105	1412418.00	5409206.94	5.30	1	E	2000	69.5	0.0	0.0	0.0	0.0	42.9	0.4	0.0	0.0	0.0	0.0	0.0	2.0	24.3
105	1412418.00	5409206.94	5.30	1	E	4000	65.7	0.0	0.0	0.0	0.0	42.9	1.3	0.0	0.0	0.0	0.0	0.0	2.0	19.5
105	1412418.00	5409206.94	5.30	1	E	8000	59.8	0.0	0.0	0.0	0.0	42.9	4.6	0.0	0.0	0.0	0.0	0.0	2.0	10.3

Point Source, ISO 9613, Name: "CP_RTU5", ID: "CP_RTU5"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)
110	1412435.60	5409221.16	5.30	0	D	32	-39.4	0.0	0.0	0.0	0.0	41.6	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-78.0
110	1412435.60	5409221.16	5.30	0	D	63	61.3	0.0	0.0	0.0	0.0	41.6	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	22.7
110	1412435.60	5409221.16	5.30	0	D	125	66.4	0.0	0.0	0.0	0.0	41.6	0.0	1.3	0.0	0.0	0.0	0.0	0.0	23.4
110	1412435.60	5409221.16	5.30	0	D	250	67.5	0.0	0.0	0.0	0.0	41.6	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	25.9
110	1412435.60	5409221.16	5.30	0	D	500	70.4	0.0	0.0	0.0	0.0	41.6	0.1	-0.8	0.0	0.0	0.0	0.0	0.0	29.5
110	1412435.60	5409221.16	5.30	0	D	1000	71.3	0.0	0.0	0.0	0.0	41.6	0.1	-0.8	0.0	0.0	0.0	0.0	0.0	30.4
110	1412435.60	5409221.16	5.30	0	D	2000	68.3	0.0	0.0	0.0	0.0	41.6	0.3	-0.8	0.0	0.0	0.0	0.0	0.0	27.2
110	1412435.60	5409221.16	5.30	0	D	4000	65.1	0.0	0.0	0.0	0.0	41.6	1.1	-0.8	0.0	0.0	0.0	0.0	0.0	23.2
110	1412435.60	5409221.16	5.30	0	D	8000	58.9	0.0	0.0	0.0	0.0	41.6	4.0	-0.8	0.0	0.0	0.0	0.0	0.0	14.1
110	1412435.60	5409221.16	5.30	0	N	32	-39.4	0.0	-3.0	0.0	0.0	41.6	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-81.0
110	1412435.60	5409221.16	5.30	0	N	63	61.3	0.0	-3.0	0.0	0.0	41.6	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	19.7
110	1412435.60	5409221.16	5.30	0	N	125	66.4	0.0	-3.0	0.0	0.0	41.6	0.0	1.3	0.0	0.0	0.0	0.0	0.0	20.4
110	1412435.60	5409221.16	5.30	0	N	250	67.5	0.0	-3.0	0.0	0.0	41.6	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	22.9
110	1412435.60	5409221.16	5.30	0	N	500	70.4	0.0	-3.0	0.0	0.0	41.6	0.1	-0.8	0.0	0.0	0.0	0.0	0.0	26.5
110	1412435.60	5409221.16	5.30	0	N	1000	71.3	0.0	-3.0	0.0	0.0	41.6	0.1	-0.8	0.0	0.0	0.0	0.0	0.0	27.4
110	1412435.60	5409221.16	5.30	0	N	2000	68.3	0.0	-3.0	0.0	0.0	41.6	0.3	-0.8	0.0	0.0	0.0	0.0	0.0	24.2
110	1412435.60	5409221.16	5.30	0	N	4000	65.1	0.0	-3.0	0.0	0.0	41.6	1.1	-0.8	0.0	0.0	0.0	0.0	0.0	20.2
110	1412435.60	5409221.16	5.30	0	N	8000	58.9	0.0	-3.0	0.0	0.0	41.6	4.0	-0.8	0.0	0.0	0.0	0.0	0.0	11.1
110	1412435.60	5409221.16	5.30	0	E	32	-39.4	0.0	0.0	0.0	0.0	41.6	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-78.0
110	1412435.60	5409221.16	5.30	0	E	63	61.3	0.0	0.0	0.0	0.0	41.6	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	22.7
110	1412435.60	5409221.16	5.30	0	E	125	66.4	0.0	0.0	0.0	0.0	41.6	0.0	1.3	0.0	0.0	0.0	0.0	0.0	23.4
110	1412435.60	5409221.16	5.30	0	E	250	67.5	0.0	0.0	0.0	0.0	41.6	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	25.9
110	1412435.60	5409221.16	5.30	0	E	500	70.4	0.0	0.0	0.0	0.0	41.6	0.1	-0.8	0.0	0.0	0.0	0.0	0.0	29.5
110	1412435.60	5409221.16	5.30	0	E	1000	71.3	0.0	0.0	0.0	0.0	41.6	0.1	-0.8	0.0	0.0	0.0	0.0	0.0	30.4
110	1412435.60	5409221.16	5.30	0	E	2000	68.3	0.0	0.0	0.0	0.0	41.6	0.3	-0.8	0.0	0.0	0.0	0.0	0.0	27.2
110	1412435.60	5409221.16	5.30	0	E	4000	65.1	0.0	0.0	0.0	0.0	41.6	1.1	-0.8	0.0	0.0	0.0	0.0	0.0	23.2
110	1412435.60	5409221.16	5.30	0	E	8000	58.9	0.0	0.0	0.0	0.0	41.6	4.0	-0.8	0.0	0.0	0.0	0.0	0.0	14.1
115	1412435.60	5409221.16	5.30	1	D	63	61.3	0.0	0.0	0.0	0.0	41.9	0.0	-3.0	0.0	0.0	7.8	0.0	2.0	12.6
115	1412435.60	5409221.16	5.30	1	D	125	66.4	0.0	0.0	0.0	0.0	41.9	0.0	2.6	0.0	0.0	2.3	0.0	2.0	17.6
115	1412435.60	5409221.16	5.30	1	D	250	67.5	0.0	0.0	0.0	0.0	41.9	0.0	0.8	0.0	0.0	4.2	0.0	2.0	18.6
115	1412435.60	5409221.16	5.30	1	D	500	70.4	0.0	0.0	0.0	0.0	41.9	0.1	-0.2	0.0	0.0	5.3	0.0	2.0	21.3
115	1412435.60	5409221.16	5.30	1	D	1000	71.3	0.0	0.0	0.0	0.0	41.9	0.1	-0.2	0.0	0.0	5.7	0.0	2.0	21.8
115	1412435.60	5409221.16	5.30	1	D	2000	68.3	0.0	0.0	0.0	0.0	41.9	0.3	-0.2	0.0	0.0	6.3	0.0	2.0	18.0
115	1412435.60	5409221.16	5.30	1	D	4000	65.1	0.0	0.0	0.0	0.0	41.9	1.1	-0.2	0.0	0.0	7.3	0.0	2.0	13.0
115	1412435.60	5409221.16	5.30	1	D	8000	58.9	0.0	0.0	0.0	0.0	41.9	4.1	-0.2	0.0	0.0	8.7	0.0	2.0	2.4
115	1412435.60	5409221.16	5.30	1	N	63	61.3	0.0	-3.0	0.0	0.0	41.9	0.0	-3.0	0.0	0.0	7.8	0.0	2.0	9.6
115	1412435.60	5409221.16	5.30	1	N	125	66.4	0.0	-3.0	0.0	0.0	41.9	0.0	2.6	0.0	0.0	2.3	0.0	2.0	14.6
115	1412435.60	5409221.16	5.30	1	N	250	67.5	0.0	-3.0	0.0	0.0	41.9	0.0	0.8	0.0	0.0	4.2	0.0	2.0	15.6
115	1412435.60	5409221.16	5.30	1	N	500	70.4	0.0	-3.0	0.0	0.0	41.9	0.1	-0.2	0.0	0.0	5.3	0.0	2.0	18.3
115	1412435.60	5409221.16	5.30	1	N	1000	71.3	0.0	-3.0	0.0	0.0	41.9	0.1	-0.2	0.0	0.0	5.7	0.0	2.0	18.8
115	1412435.60	5409221.16	5.30	1	N	2000	68.3	0.0	-3.0	0.0	0.0	41.9	0.3	-0.2	0.0	0.0	6.3	0.0	2.0	15.0
115	1412435.60	5409221.16	5.30	1	N	4000	65.1	0.0	-3.0	0.0	0.0	41.9	1.1	-0.2	0.0	0.0	7.3	0.0	2.0	10.0
115	1412435.60	5409221.16	5.30	1	N	8000	58.9	0.0	-3.0	0.0	0.0	41.9	4.1	-0.2	0.0	0.0	8.7	0.0	2.0	-0.6
115	1412435.60	5409221.16	5.30	1	E	63	61.3	0.0	0.0	0.0	0.0	41.9	0.0	-3.0	0.0	0.0	7.8	0.0	2.0	12.6
115	1412435.60	5409221.16	5.30	1	E	125	66.4	0.0	0.0	0.0	0.0	41.9	0.0	2.6	0.0	0.0	2.3	0.0	2.0	17.6
115	1412435.60	5409221.16	5.30	1	E	250	67.5	0.0	0.0	0.0	0.0	41.9	0.0	0.8	0.0	0.0	4.2	0.0	2.0	18.6
115	1412435.60	5409221.16	5.30	1	E	500	70.4	0.0	0.0	0.0	0.0	41.9	0.1	-0.2	0.0	0.0	5.3	0.0	2.0	21.3

Point Source, ISO 9613, Name: "CP_RTU5", ID: "CP_RTU5"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
115	1412435.60	5409221.16	5.30	1	E	1000	71.3	0.0	0.0	0.0	0.0	41.9	0.1	-0.2	0.0	0.0	5.7	0.0	2.0	21.8
115	1412435.60	5409221.16	5.30	1	E	2000	68.3	0.0	0.0	0.0	0.0	41.9	0.3	-0.2	0.0	0.0	6.3	0.0	2.0	18.0
115	1412435.60	5409221.16	5.30	1	E	4000	65.1	0.0	0.0	0.0	0.0	41.9	1.1	-0.2	0.0	0.0	7.3	0.0	2.0	13.0
115	1412435.60	5409221.16	5.30	1	E	8000	58.9	0.0	0.0	0.0	0.0	41.9	4.1	-0.2	0.0	0.0	8.7	0.0	2.0	2.4

Point Source, ISO 9613, Name: "CP_CAR", ID: "CP_CAR_01"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
121	1412390.08	5409206.44	1.20	0	D	32	-39.4	0.0	0.0	0.0	0.0	47.1	0.0	-3.0	0.0	0.0	6.7	0.0	0.0	-90.2
121	1412390.08	5409206.44	1.20	0	D	63	58.9	0.0	0.0	0.0	0.0	47.1	0.0	-3.0	0.0	0.0	8.7	0.0	0.0	6.1
121	1412390.08	5409206.44	1.20	0	D	125	61.9	0.0	0.0	0.0	0.0	47.1	0.0	2.1	0.0	0.0	8.3	0.0	0.0	4.4
121	1412390.08	5409206.44	1.20	0	D	250	67.5	0.0	0.0	0.0	0.0	47.1	0.1	5.5	0.0	0.0	9.3	0.0	0.0	5.5
121	1412390.08	5409206.44	1.20	0	D	500	75.0	0.0	0.0	0.0	0.0	47.1	0.1	4.4	0.0	0.0	14.0	0.0	0.0	9.4
121	1412390.08	5409206.44	1.20	0	D	1000	73.7	0.0	0.0	0.0	0.0	47.1	0.2	0.6	0.0	0.0	19.5	0.0	0.0	6.3
121	1412390.08	5409206.44	1.20	0	D	2000	73.4	0.0	0.0	0.0	0.0	47.1	0.6	-0.3	0.0	0.0	22.2	0.0	0.0	3.8
121	1412390.08	5409206.44	1.20	0	D	4000	70.2	0.0	0.0	0.0	0.0	47.1	2.1	-0.3	0.0	0.0	23.5	0.0	0.0	-2.2
121	1412390.08	5409206.44	1.20	0	D	8000	65.9	0.0	0.0	0.0	0.0	47.1	7.4	-0.3	0.0	0.0	24.3	0.0	0.0	-12.6
121	1412390.08	5409206.44	1.20	0	N	32	-39.4	0.0	-7.8	0.0	0.0	47.1	0.0	-3.0	0.0	0.0	6.7	0.0	0.0	-98.0
121	1412390.08	5409206.44	1.20	0	N	63	58.9	0.0	-7.8	0.0	0.0	47.1	0.0	-3.0	0.0	0.0	8.7	0.0	0.0	-1.6
121	1412390.08	5409206.44	1.20	0	N	125	61.9	0.0	-7.8	0.0	0.0	47.1	0.0	2.1	0.0	0.0	8.3	0.0	0.0	-3.4
121	1412390.08	5409206.44	1.20	0	N	250	67.5	0.0	-7.8	0.0	0.0	47.1	0.1	5.5	0.0	0.0	9.3	0.0	0.0	-2.3
121	1412390.08	5409206.44	1.20	0	N	500	75.0	0.0	-7.8	0.0	0.0	47.1	0.1	4.4	0.0	0.0	14.0	0.0	0.0	1.6
121	1412390.08	5409206.44	1.20	0	N	1000	73.7	0.0	-7.8	0.0	0.0	47.1	0.2	0.6	0.0	0.0	19.5	0.0	0.0	-1.5
121	1412390.08	5409206.44	1.20	0	N	2000	73.4	0.0	-7.8	0.0	0.0	47.1	0.6	-0.3	0.0	0.0	22.2	0.0	0.0	-4.0
121	1412390.08	5409206.44	1.20	0	N	4000	70.2	0.0	-7.8	0.0	0.0	47.1	2.1	-0.3	0.0	0.0	23.5	0.0	0.0	-9.9
121	1412390.08	5409206.44	1.20	0	N	8000	65.9	0.0	-7.8	0.0	0.0	47.1	7.4	-0.3	0.0	0.0	24.3	0.0	0.0	-20.4
121	1412390.08	5409206.44	1.20	0	E	32	-39.4	0.0	0.0	0.0	0.0	47.1	0.0	-3.0	0.0	0.0	6.7	0.0	0.0	-90.2
121	1412390.08	5409206.44	1.20	0	E	63	58.9	0.0	0.0	0.0	0.0	47.1	0.0	-3.0	0.0	0.0	8.7	0.0	0.0	6.1
121	1412390.08	5409206.44	1.20	0	E	125	61.9	0.0	0.0	0.0	0.0	47.1	0.0	2.1	0.0	0.0	8.3	0.0	0.0	4.4
121	1412390.08	5409206.44	1.20	0	E	250	67.5	0.0	0.0	0.0	0.0	47.1	0.1	5.5	0.0	0.0	9.3	0.0	0.0	5.5
121	1412390.08	5409206.44	1.20	0	E	500	75.0	0.0	0.0	0.0	0.0	47.1	0.1	4.4	0.0	0.0	14.0	0.0	0.0	9.4
121	1412390.08	5409206.44	1.20	0	E	1000	73.7	0.0	0.0	0.0	0.0	47.1	0.2	0.6	0.0	0.0	19.5	0.0	0.0	6.3
121	1412390.08	5409206.44	1.20	0	E	2000	73.4	0.0	0.0	0.0	0.0	47.1	0.6	-0.3	0.0	0.0	22.2	0.0	0.0	3.8
121	1412390.08	5409206.44	1.20	0	E	4000	70.2	0.0	0.0	0.0	0.0	47.1	2.1	-0.3	0.0	0.0	23.5	0.0	0.0	-2.2
121	1412390.08	5409206.44	1.20	0	E	8000	65.9	0.0	0.0	0.0	0.0	47.1	7.4	-0.3	0.0	0.0	24.3	0.0	0.0	-12.6
125	1412390.08	5409206.44	1.20	2	D	500	75.0	0.0	0.0	0.0	0.0	49.1	0.2	4.7	0.0	0.0	9.9	0.0	4.0	7.2
125	1412390.08	5409206.44	1.20	2	D	1000	73.7	0.0	0.0	0.0	0.0	49.1	0.3	0.6	0.0	0.0	16.7	0.0	4.0	3.0
125	1412390.08	5409206.44	1.20	2	D	2000	73.4	0.0	0.0	0.0	0.0	49.1	0.8	-0.3	0.0	0.0	20.3	0.0	4.0	-0.5
125	1412390.08	5409206.44	1.20	2	D	4000	70.2	0.0	0.0	0.0	0.0	49.1	2.6	-0.3	0.0	0.0	20.3	0.0	4.0	-5.5
125	1412390.08	5409206.44	1.20	2	D	8000	65.9	0.0	0.0	0.0	0.0	49.1	9.4	-0.3	0.0	0.0	20.3	0.0	4.0	-16.6
125	1412390.08	5409206.44	1.20	2	N	500	75.0	0.0	-7.8	0.0	0.0	49.1	0.2	4.7	0.0	0.0	9.9	0.0	4.0	-0.6
125	1412390.08	5409206.44	1.20	2	N	1000	73.7	0.0	-7.8	0.0	0.0	49.1	0.3	0.6	0.0	0.0	16.7	0.0	4.0	-4.8
125	1412390.08	5409206.44	1.20	2	N	2000	73.4	0.0	-7.8	0.0	0.0	49.1	0.8	-0.3	0.0	0.0	20.3	0.0	4.0	-8.3
125	1412390.08	5409206.44	1.20	2	N	4000	70.2	0.0	-7.8	0.0	0.0	49.1	2.6	-0.3	0.0	0.0	20.3	0.0	4.0	-13.3
125	1412390.08	5409206.44	1.20	2	N	8000	65.9	0.0	-7.8	0.0	0.0	49.1	9.4	-0.3	0.0	0.0	20.3	0.0	4.0	-24.4
125	1412390.08	5409206.44	1.20	2	E	500	75.0	0.0	0.0	0.0	0.0	49.1	0.2	4.7	0.0	0.0	9.9	0.0	4.0	7.2
125	1412390.08	5409206.44	1.20	2	E	1000	73.7	0.0	0.0	0.0	0.0	49.1	0.3	0.6	0.0	0.0	16.7	0.0	4.0	3.0
125	1412390.08	5409206.44	1.20	2	E	2000	73.4	0.0	0.0	0.0	0.0	49.1	0.8	-0.3	0.0	0.0	20.3	0.0	4.0	-0.5
125	1412390.08	5409206.44	1.20	2	E	4000	70.2	0.0	0.0	0.0	0.0	49.1	2.6	-0.3	0.0	0.0	20.3	0.0	4.0	-5.5
125	1412390.08	5409206.44	1.20	2	E	8000	65.9	0.0	0.0	0.0	0.0	49.1	9.4	-0.3	0.0	0.0	20.3	0.0	4.0	-16.6

Point Source, ISO 9613, Name: "CP_CAR", ID: "CP_CAR_02"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
132	1412389.75	5409213.86	1.20	0	D	32	-39.4	0.0	0.0	0.0	0.0	47.4	0.0	-3.0	0.0	0.0	8.3	0.0	0.0	-92.1
132	1412389.75	5409213.86	1.20	0	D	63	58.9	0.0	0.0	0.0	0.0	47.4	0.0	-3.0	0.0	0.0	10.8	0.0	0.0	3.7
132	1412389.75	5409213.86	1.20	0	D	125	61.9	0.0	0.0	0.0	0.0	47.4	0.0	2.1	0.0	0.0	10.5	0.0	0.0	1.8
132	1412389.75	5409213.86	1.20	0	D	250	67.5	0.0	0.0	0.0	0.0	47.4	0.1	5.6	0.0	0.0	11.2	0.0	0.0	3.2
132	1412389.75	5409213.86	1.20	0	D	500	75.0	0.0	0.0	0.0	0.0	47.4	0.1	4.4	0.0	0.0	15.5	0.0	0.0	7.6
132	1412389.75	5409213.86	1.20	0	D	1000	73.7	0.0	0.0	0.0	0.0	47.4	0.2	0.6	0.0	0.0	21.4	0.0	0.0	4.0
132	1412389.75	5409213.86	1.20	0	D	2000	73.4	0.0	0.0	0.0	0.0	47.4	0.6	-0.3	0.0	0.0	23.9	0.0	0.0	1.8
132	1412389.75	5409213.86	1.20	0	D	4000	70.2	0.0	0.0	0.0	0.0	47.4	2.2	-0.3	0.0	0.0	24.5	0.0	0.0	-3.6
132	1412389.75	5409213.86	1.20	0	D	8000	65.9	0.0	0.0	0.0	0.0	47.4	7.7	-0.3	0.0	0.0	24.9	0.0	0.0	-13.8

Point Source, ISO 9613, Name: "CP_CAR", ID: "CP_CAR_02"																				
Nr.	X	Y	Z	Ref.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)
132	1412389.75	5409213.86	1.20	0	N	32	-39.4	0.0	-188.0	0.0	0.0	47.4	0.0	-3.0	0.0	0.0	8.3	0.0	0.0	-280.1
132	1412389.75	5409213.86	1.20	0	N	63	58.9	0.0	-188.0	0.0	0.0	47.4	0.0	-3.0	0.0	0.0	10.8	0.0	0.0	-184.3
132	1412389.75	5409213.86	1.20	0	N	125	61.9	0.0	-188.0	0.0	0.0	47.4	0.0	2.1	0.0	0.0	10.5	0.0	0.0	-186.2
132	1412389.75	5409213.86	1.20	0	N	250	67.5	0.0	-188.0	0.0	0.0	47.4	0.1	5.6	0.0	0.0	11.2	0.0	0.0	-184.8
132	1412389.75	5409213.86	1.20	0	N	500	75.0	0.0	-188.0	0.0	0.0	47.4	0.1	4.4	0.0	0.0	15.5	0.0	0.0	-180.4
132	1412389.75	5409213.86	1.20	0	N	1000	73.7	0.0	-188.0	0.0	0.0	47.4	0.2	0.6	0.0	0.0	21.4	0.0	0.0	-184.0
132	1412389.75	5409213.86	1.20	0	N	2000	73.4	0.0	-188.0	0.0	0.0	47.4	0.6	-0.3	0.0	0.0	23.9	0.0	0.0	-186.2
132	1412389.75	5409213.86	1.20	0	N	4000	70.2	0.0	-188.0	0.0	0.0	47.4	2.2	-0.3	0.0	0.0	24.5	0.0	0.0	-191.6
132	1412389.75	5409213.86	1.20	0	N	8000	65.9	0.0	-188.0	0.0	0.0	47.4	7.7	-0.3	0.0	0.0	24.9	0.0	0.0	-201.8
132	1412389.75	5409213.86	1.20	0	E	32	-39.4	0.0	0.0	0.0	0.0	47.4	0.0	-3.0	0.0	0.0	8.3	0.0	0.0	-92.1
132	1412389.75	5409213.86	1.20	0	E	63	58.9	0.0	0.0	0.0	0.0	47.4	0.0	-3.0	0.0	0.0	10.8	0.0	0.0	3.7
132	1412389.75	5409213.86	1.20	0	E	125	61.9	0.0	0.0	0.0	0.0	47.4	0.0	2.1	0.0	0.0	10.5	0.0	0.0	1.8
132	1412389.75	5409213.86	1.20	0	E	250	67.5	0.0	0.0	0.0	0.0	47.4	0.1	5.6	0.0	0.0	11.2	0.0	0.0	3.2
132	1412389.75	5409213.86	1.20	0	E	500	75.0	0.0	0.0	0.0	0.0	47.4	0.1	4.4	0.0	0.0	15.5	0.0	0.0	7.6
132	1412389.75	5409213.86	1.20	0	E	1000	73.7	0.0	0.0	0.0	0.0	47.4	0.2	0.6	0.0	0.0	21.4	0.0	0.0	4.0
132	1412389.75	5409213.86	1.20	0	E	2000	73.4	0.0	0.0	0.0	0.0	47.4	0.6	-0.3	0.0	0.0	23.9	0.0	0.0	1.8
132	1412389.75	5409213.86	1.20	0	E	4000	70.2	0.0	0.0	0.0	0.0	47.4	2.2	-0.3	0.0	0.0	24.5	0.0	0.0	-3.6
132	1412389.75	5409213.86	1.20	0	E	8000	65.9	0.0	0.0	0.0	0.0	47.4	7.7	-0.3	0.0	0.0	24.9	0.0	0.0	-13.8
137	1412389.75	5409213.86	1.20	2	D	2000	73.4	0.0	0.0	0.0	0.0	58.1	2.2	-1.8	0.0	0.0	26.8	0.0	4.0	-15.8
137	1412389.75	5409213.86	1.20	2	D	4000	70.2	0.0	0.0	0.0	0.0	58.1	7.4	-1.8	0.0	0.0	26.8	0.0	4.0	-24.3
137	1412389.75	5409213.86	1.20	2	D	8000	65.9	0.0	0.0	0.0	0.0	58.1	26.3	-1.8	0.0	0.0	26.8	0.0	4.0	-47.5
137	1412389.75	5409213.86	1.20	2	N	2000	73.4	0.0	-188.0	0.0	0.0	58.1	2.2	-1.8	0.0	0.0	26.8	0.0	4.0	-203.8
137	1412389.75	5409213.86	1.20	2	N	4000	70.2	0.0	-188.0	0.0	0.0	58.1	7.4	-1.8	0.0	0.0	26.8	0.0	4.0	-212.3
137	1412389.75	5409213.86	1.20	2	N	8000	65.9	0.0	-188.0	0.0	0.0	58.1	26.3	-1.8	0.0	0.0	26.8	0.0	4.0	-235.5
137	1412389.75	5409213.86	1.20	2	E	2000	73.4	0.0	0.0	0.0	0.0	58.1	2.2	-1.8	0.0	0.0	26.8	0.0	4.0	-15.8
137	1412389.75	5409213.86	1.20	2	E	4000	70.2	0.0	0.0	0.0	0.0	58.1	7.4	-1.8	0.0	0.0	26.8	0.0	4.0	-24.3
137	1412389.75	5409213.86	1.20	2	E	8000	65.9	0.0	0.0	0.0	0.0	58.1	26.3	-1.8	0.0	0.0	26.8	0.0	4.0	-47.5
141	1412389.75	5409213.86	1.20	2	D	500	75.0	0.0	0.0	0.0	0.0	49.6	0.2	4.7	0.0	0.0	14.6	0.0	4.0	1.9
141	1412389.75	5409213.86	1.20	2	D	1000	73.7	0.0	0.0	0.0	0.0	49.6	0.3	0.6	0.0	0.0	22.0	0.0	4.0	-2.9
141	1412389.75	5409213.86	1.20	2	D	2000	73.4	0.0	0.0	0.0	0.0	49.6	0.8	-0.3	0.0	0.0	25.3	0.0	4.0	-6.1
141	1412389.75	5409213.86	1.20	2	D	4000	70.2	0.0	0.0	0.0	0.0	49.6	2.8	-0.3	0.0	0.0	25.3	0.0	4.0	-11.2
141	1412389.75	5409213.86	1.20	2	D	8000	65.9	0.0	0.0	0.0	0.0	49.6	10.0	-0.3	0.0	0.0	25.3	0.0	4.0	-22.7
141	1412389.75	5409213.86	1.20	2	N	500	75.0	0.0	-188.0	0.0	0.0	49.6	0.2	4.7	0.0	0.0	14.6	0.0	4.0	-186.1
141	1412389.75	5409213.86	1.20	2	N	1000	73.7	0.0	-188.0	0.0	0.0	49.6	0.3	0.6	0.0	0.0	22.0	0.0	4.0	-190.9
141	1412389.75	5409213.86	1.20	2	N	2000	73.4	0.0	-188.0	0.0	0.0	49.6	0.8	-0.3	0.0	0.0	25.3	0.0	4.0	-194.1
141	1412389.75	5409213.86	1.20	2	N	4000	70.2	0.0	-188.0	0.0	0.0	49.6	2.8	-0.3	0.0	0.0	25.3	0.0	4.0	-199.2
141	1412389.75	5409213.86	1.20	2	N	8000	65.9	0.0	-188.0	0.0	0.0	49.6	10.0	-0.3	0.0	0.0	25.3	0.0	4.0	-210.7
141	1412389.75	5409213.86	1.20	2	E	500	75.0	0.0	0.0	0.0	0.0	49.6	0.2	4.7	0.0	0.0	14.6	0.0	4.0	1.9
141	1412389.75	5409213.86	1.20	2	E	1000	73.7	0.0	0.0	0.0	0.0	49.6	0.3	0.6	0.0	0.0	22.0	0.0	4.0	-2.9
141	1412389.75	5409213.86	1.20	2	E	2000	73.4	0.0	0.0	0.0	0.0	49.6	0.8	-0.3	0.0	0.0	25.3	0.0	4.0	-6.1
141	1412389.75	5409213.86	1.20	2	E	4000	70.2	0.0	0.0	0.0	0.0	49.6	2.8	-0.3	0.0	0.0	25.3	0.0	4.0	-11.2
141	1412389.75	5409213.86	1.20	2	E	8000	65.9	0.0	0.0	0.0	0.0	49.6	10.0	-0.3	0.0	0.0	25.3	0.0	4.0	-22.7



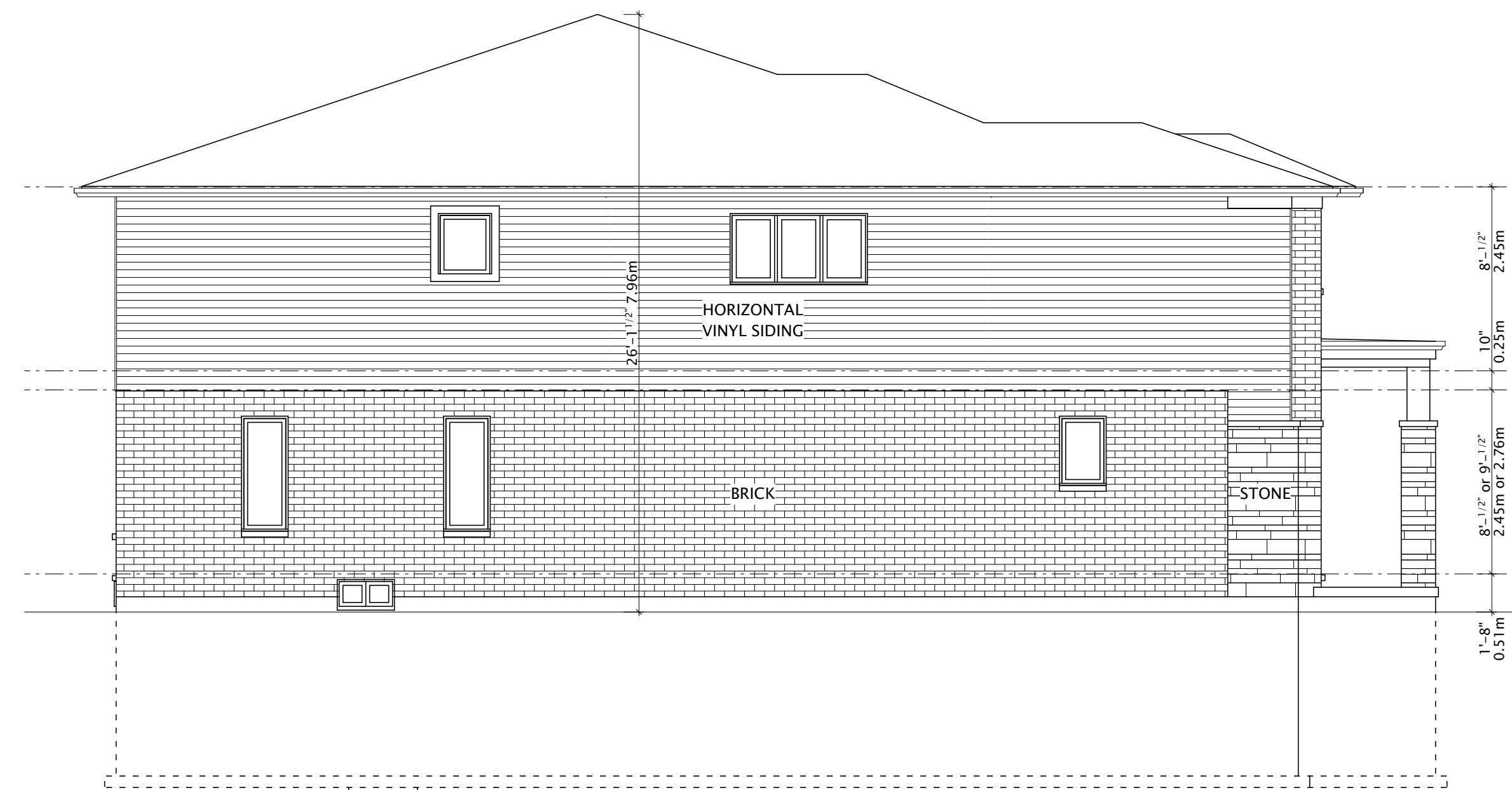
# **APPENDIX E**

## **FLOOR PLAN AND ELEVATION DRAWINGS**

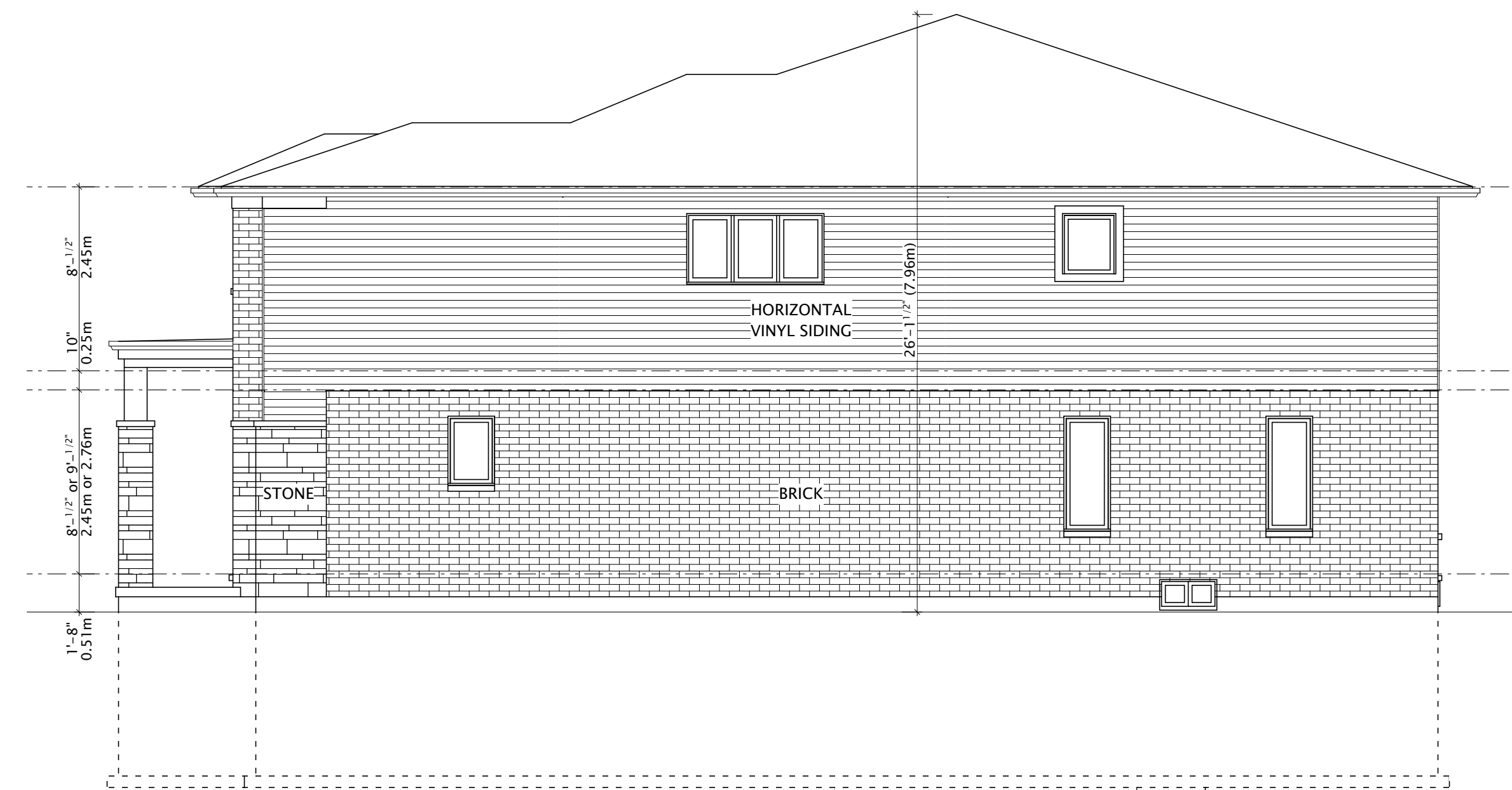




BACK ELEVATION



LEFT ELEVATION



RIGHT ELEVATION

NOTES:

REVISION	DATE
ISSUED	March 17, 2022

TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Taxion no. 26105

BCIN: 22084

DSG NR. SIG:



3350 MERRITTVILLE HWY #5, THOROLD, ONT.  
PHONE: (905) 688-3100 FAX: (905) 688-6524

PROJECT NAME:  
**LENNON & ASPEN**

PROJECT ADDRESS:  
**WEST CREEK CONDO  
WELLAND, ON**

PAGE TITLE:  
**TYPICAL BLOCK  
ELEVATIONS**

PLAN NO:	LOT:
UNKNOWN	SAMPLE

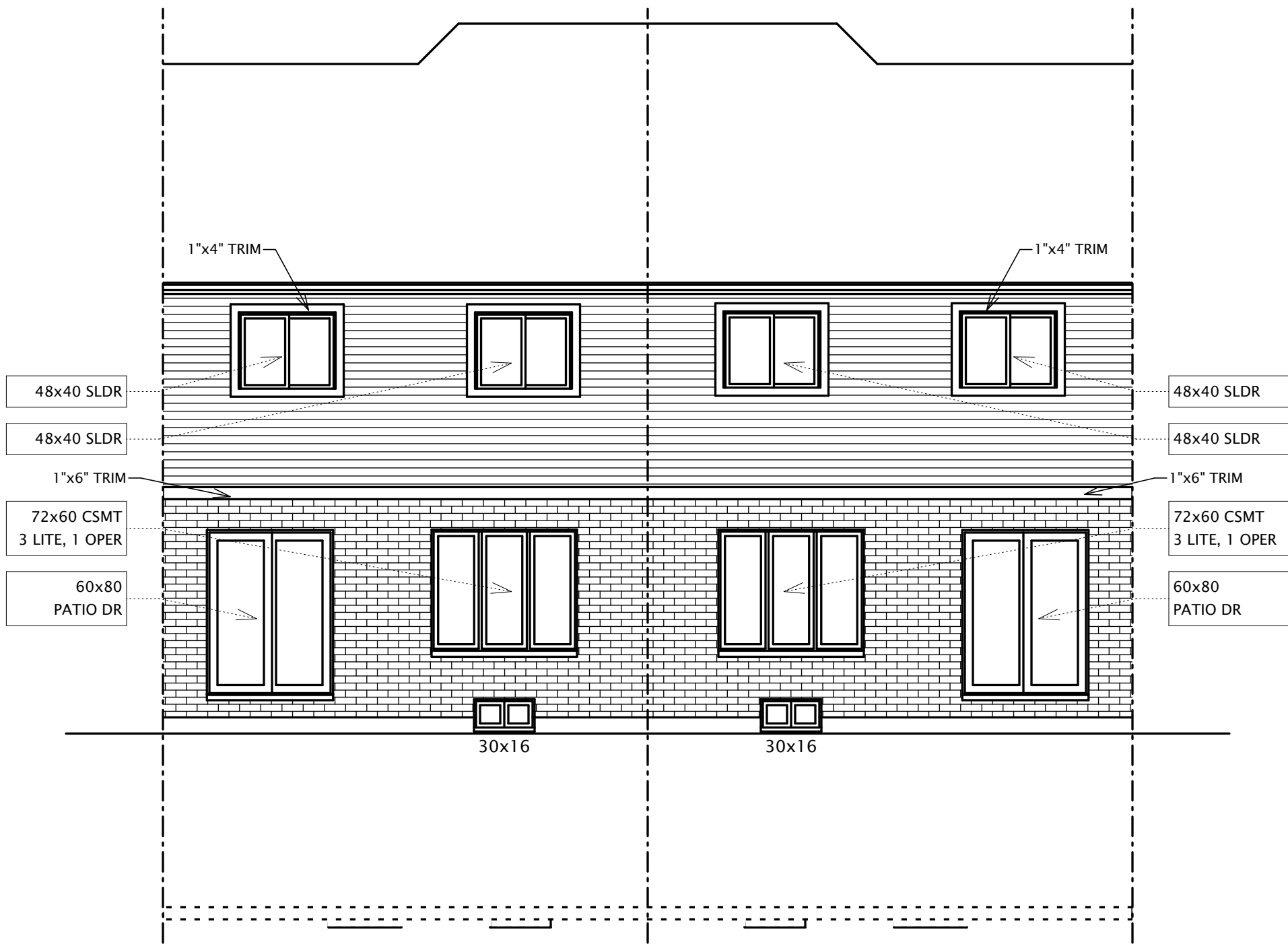
SCALE:

DRAWN BY:	PAGE NUMBER:
TL	1 OF 1
CHECKED BY:	
TL	



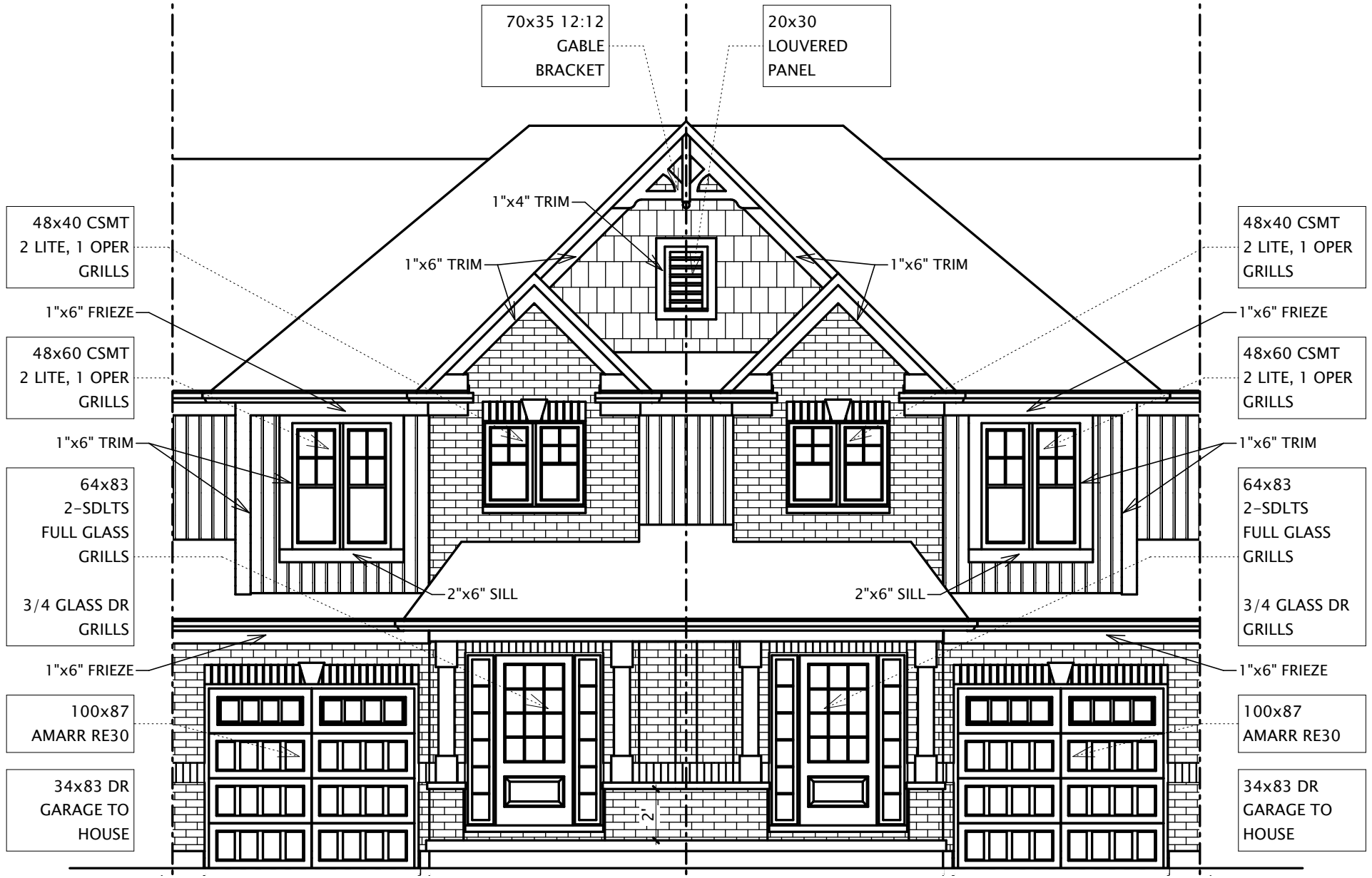


FRONT ELEVATION 'A'

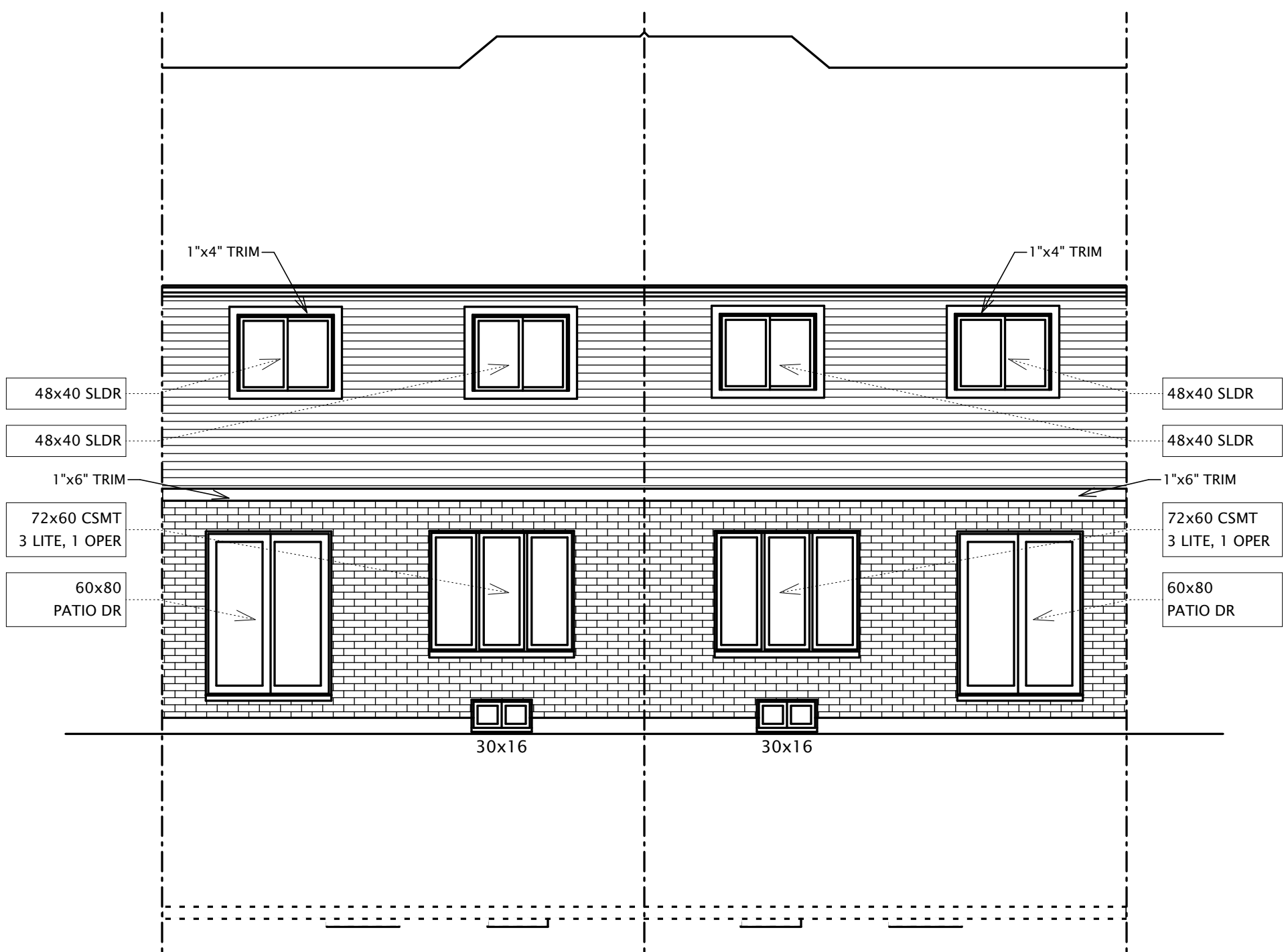


BACK ELEVATION 'A'

PROJECT NAME: <b>ASPEN</b>		PROJECT ID:	DATE: March 2, 2021	SCALE: 3/16" = 1'0"	DRAWN BY: TL
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		 <b>MOUNTAINVIEW HOMES</b> <small>3350 MERRITTVILLE HWY #9, THOROLD, ONT.          PHONE: (905) 688-3100 FAX: (905) 688-5524</small>		PAGE: <b>1A OF 10</b>
PLAN NO: <b>00M-000</b>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. <u>26105</u> .		BCIN: <b>22084</b>	DSG NR. SIG:



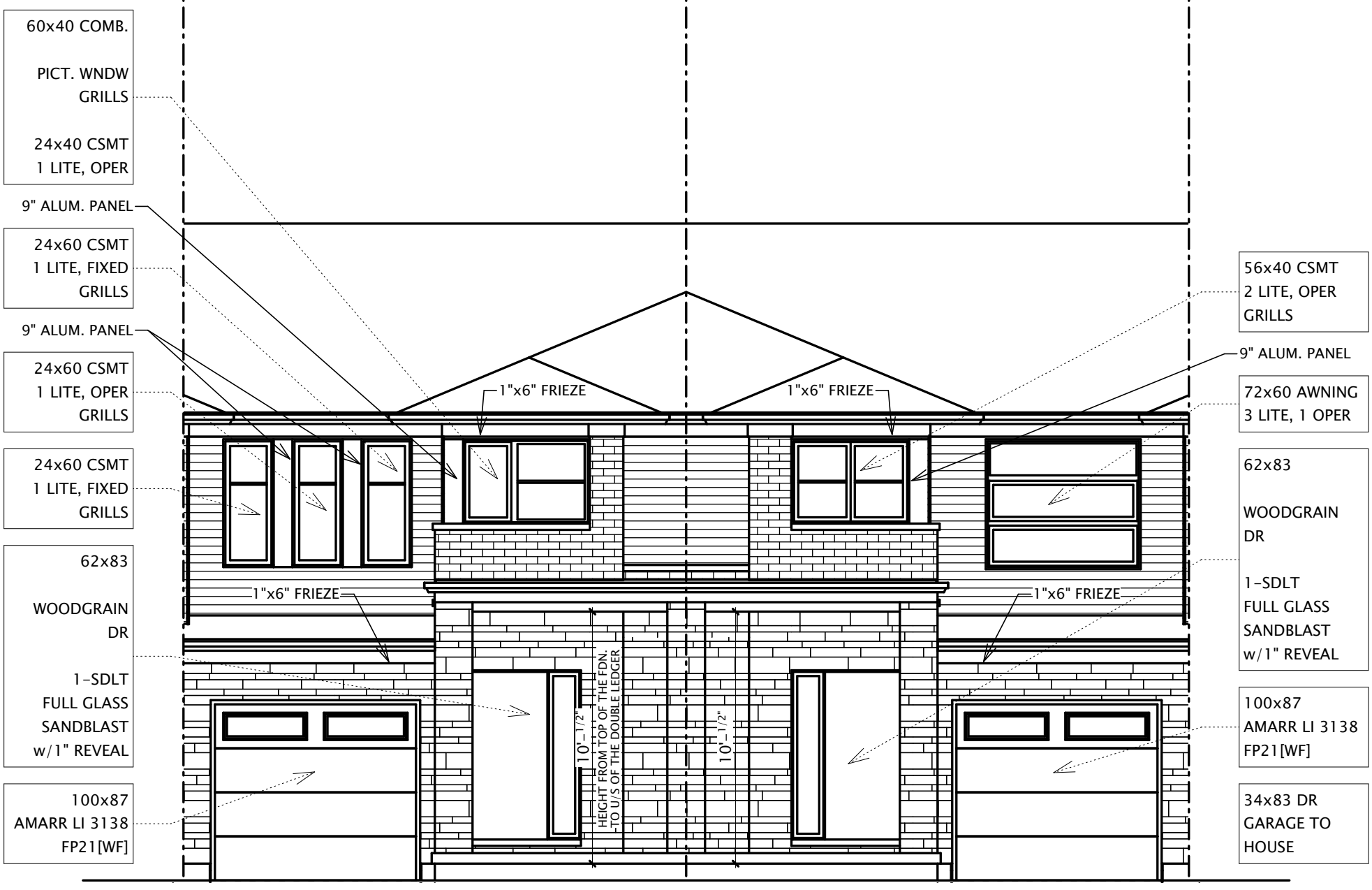
FRONT ELEVATION 'B'



BACK ELEVATION 'B'

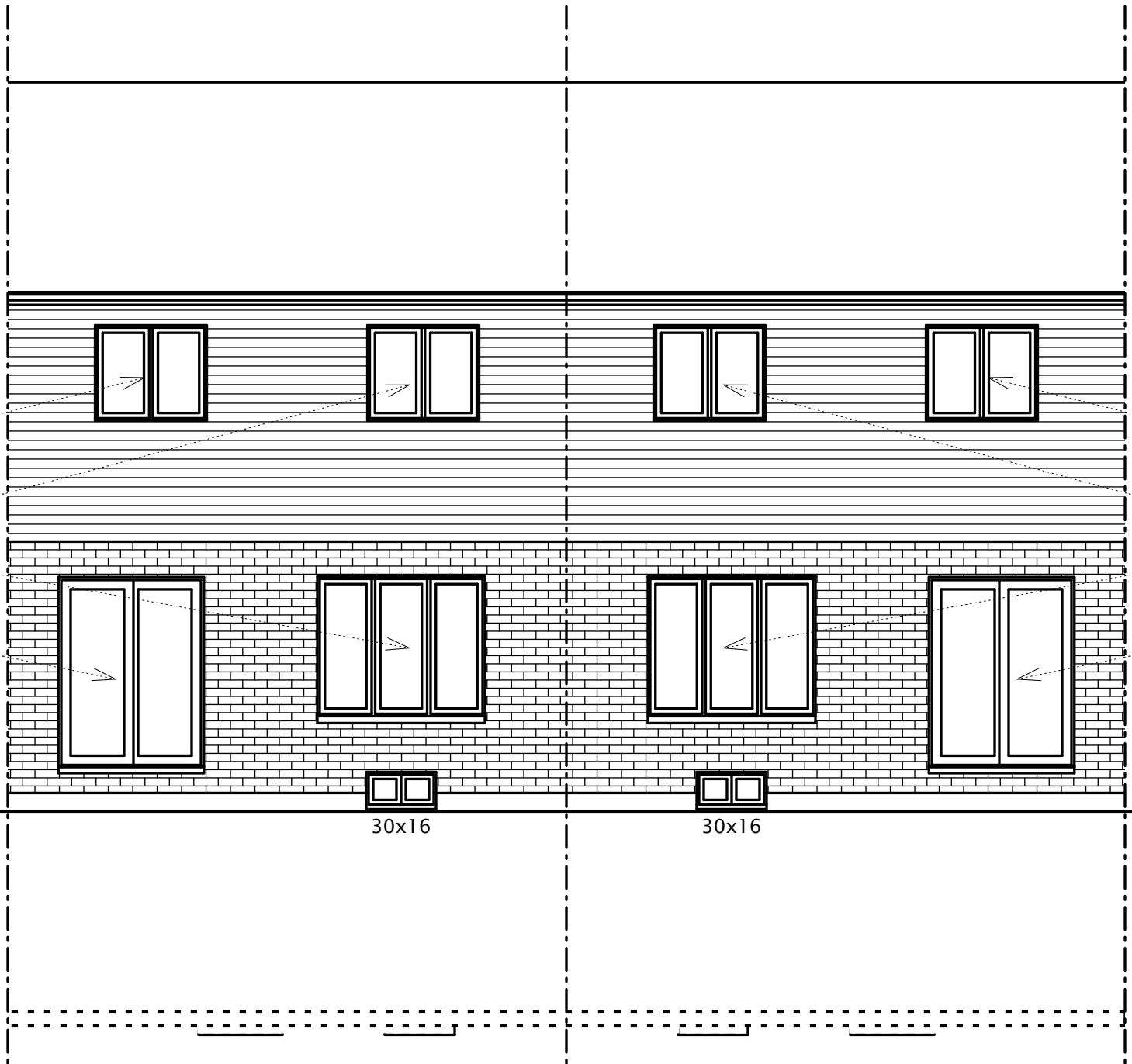
PROJECT NAME: <b>ASPEN</b>		PROJECT ID:	DATE: March 2, 2021	SCALE: 3/16" = 1'0"	DRAWN BY: TL
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		 <b>MOUNTAINVIEW HOMES</b> <small>3350 MERRITTVILLE HWY #9, THOROLD, ONT.          PHONE: (905) 688-3100 FAX: (905) 688-5524</small>		PAGE: <b>1B OF 10</b>
PLAN NO: <b>00M-000</b>			BCIN: <b>22084</b>	DSG NR. SIG:	

TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. 26105



FRONT ELEVATION 'M1'

FRONT ELEVATION 'M2'



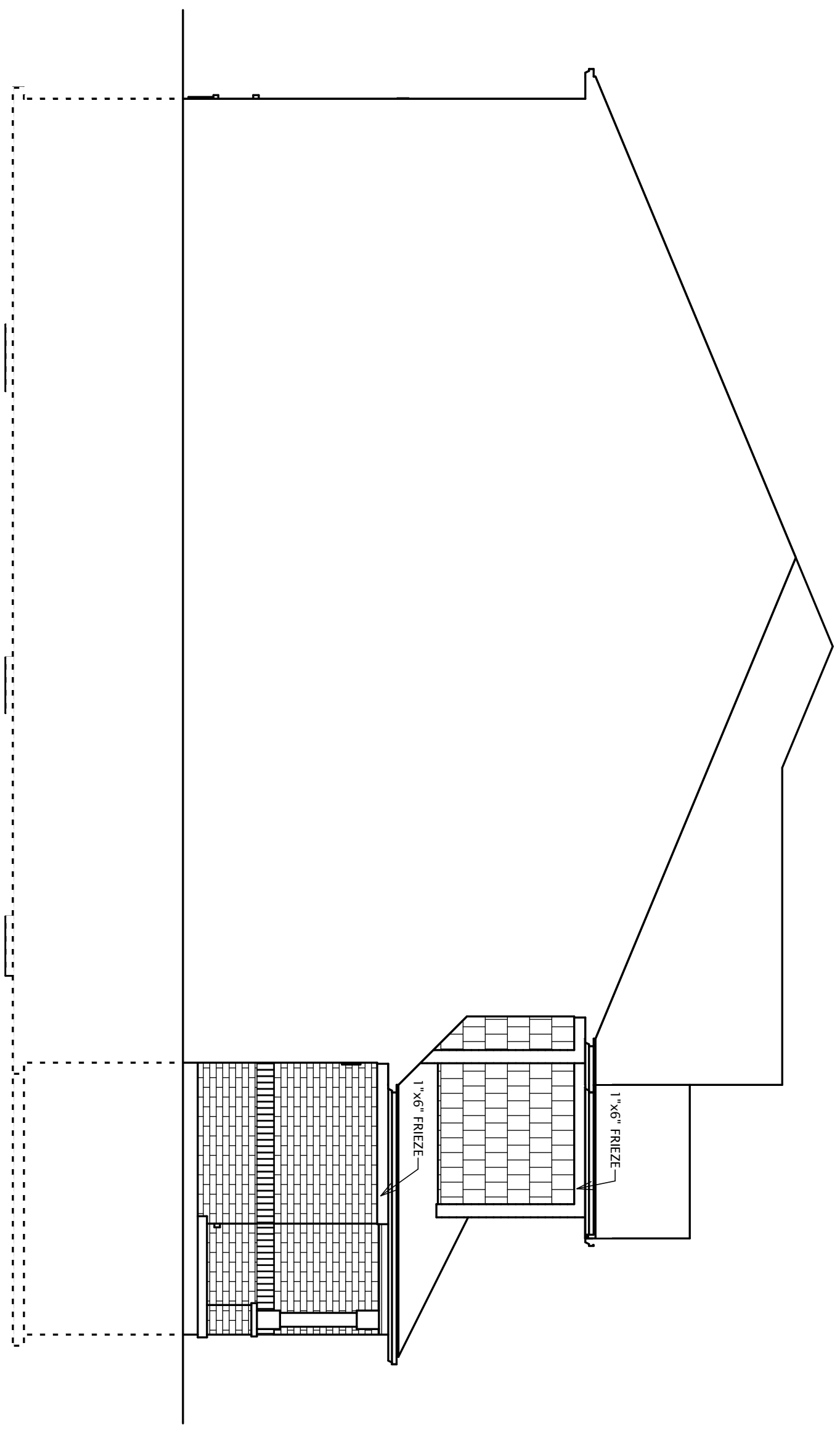
BACK ELEVATION 'M2'

BACK ELEVATION 'M1'

PROJECT NAME: <b>ASPEN</b>		PROJECT ID:	DATE: March 2, 2021	SCALE: 3/16" = 1'0"	DRAWN BY: TL
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		 <b>MOUNTAINVIEW HOMES</b> <small>3350 MERRITTVILLE HWY #9, THOROLD, ONT. PHONE: (905) 688-3100 FAX: (905) 688-5524</small>		PAGE: <b>1M OF 10</b>
PLAN NO: <b>00M-000</b>			BCIN: <b>22084</b>	DSG NR. SIG:	

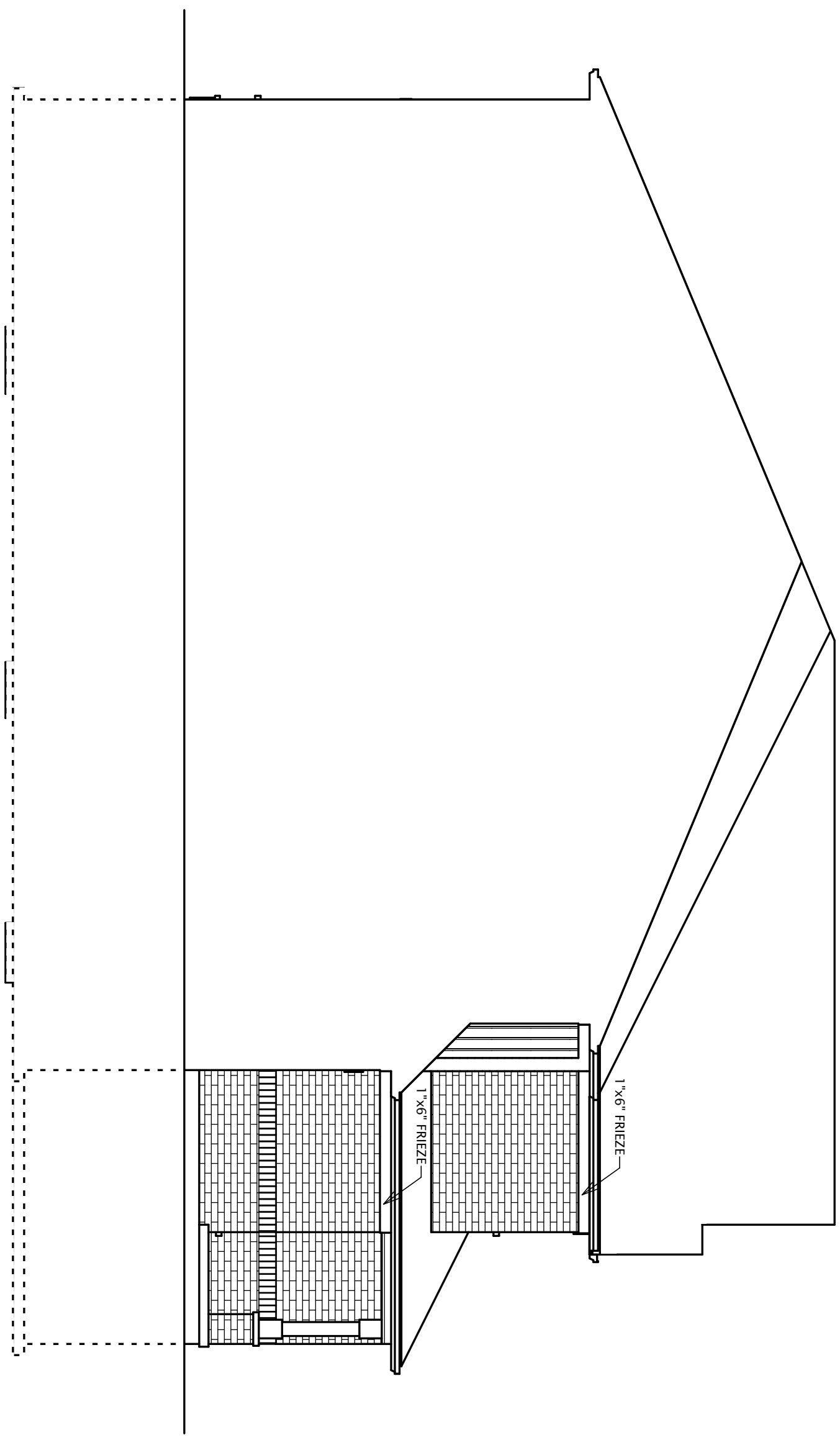
TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. 26105

LEFT ELEVATION 'A'



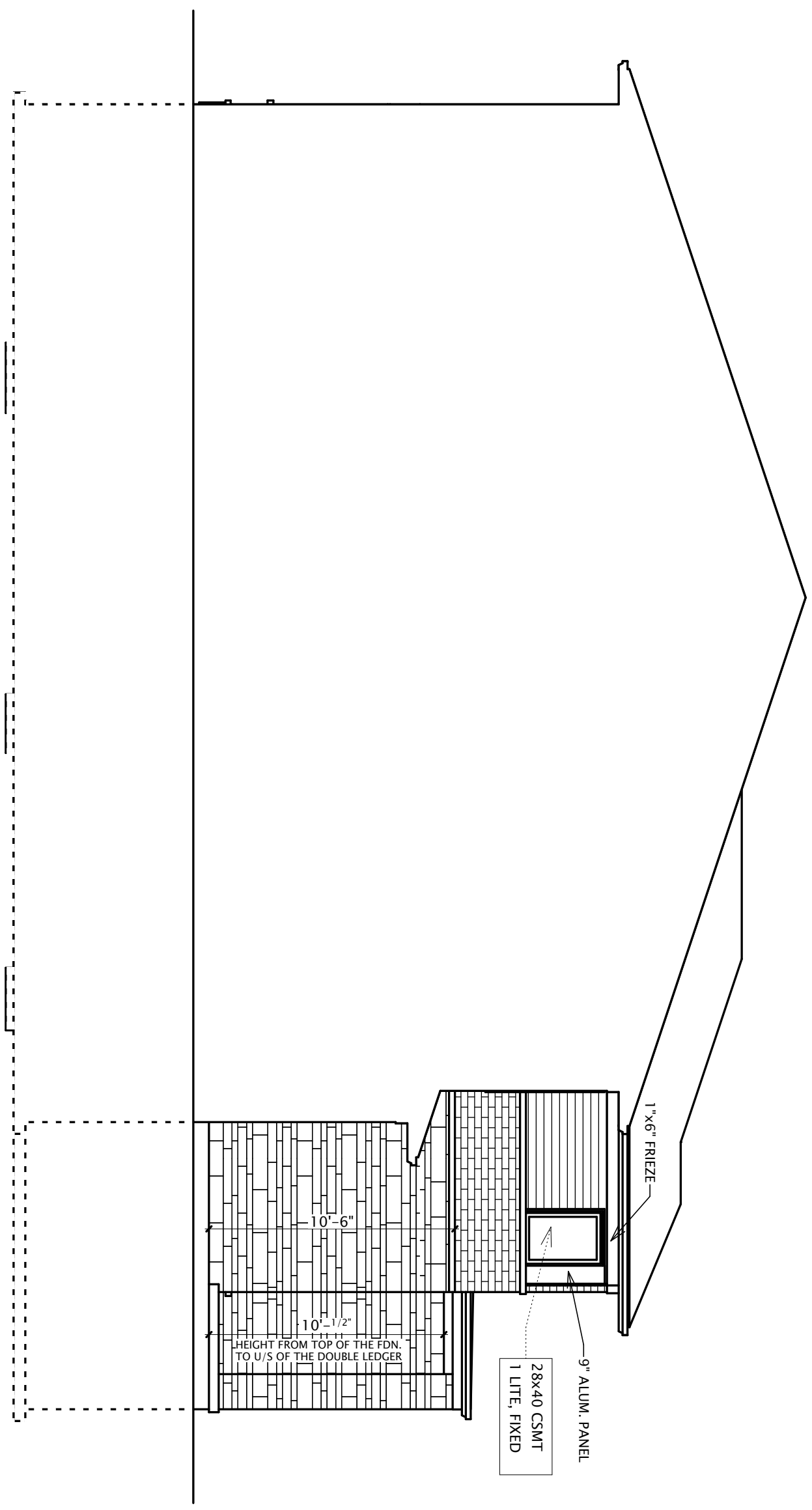
PROJECT NAME: <b>ASPEN</b>		PROJECT ID:	DATE: <b>March 2, 2021</b>	SCALE: <b>3/16" = 1'0"</b>	DRAWN BY: <b>TL</b>
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. <u>26105</u> .		PAGE: <b>2A OF 10</b>
PLAN NO: <b>00M-000</b>		 <b>MOUNTAINVIEW HOMES</b> <small>3350 MERRITTVILLE HWY #9, THOROLD, ONT.          PHONE: (905) 688-3100 FAX: (905) 688-5524</small>	BCIN: <b>22084</b>	DSG NR. SIG: _____	

LEFT ELEVATION 'B'



PROJECT NAME: <b>ASPEN</b>		PROJECT ID:	DATE: <b>March 2, 2021</b>	SCALE: <b>3/16" = 1'0"</b>	DRAWN BY: <b>TL</b>
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. <u>26105</u>		PAGE: <b>2B OF 10</b>
PLAN NO: <b>00M-000</b>		 <b>MOUNTAINVIEW HOMES</b> 3350 MERRITTVILLE HWY #9, THOROLD, ONT. PHONE: (905) 688-3100 FAX: (905) 688-5524		BCIN: <b>22084</b>	DSG NR. SIG: _____

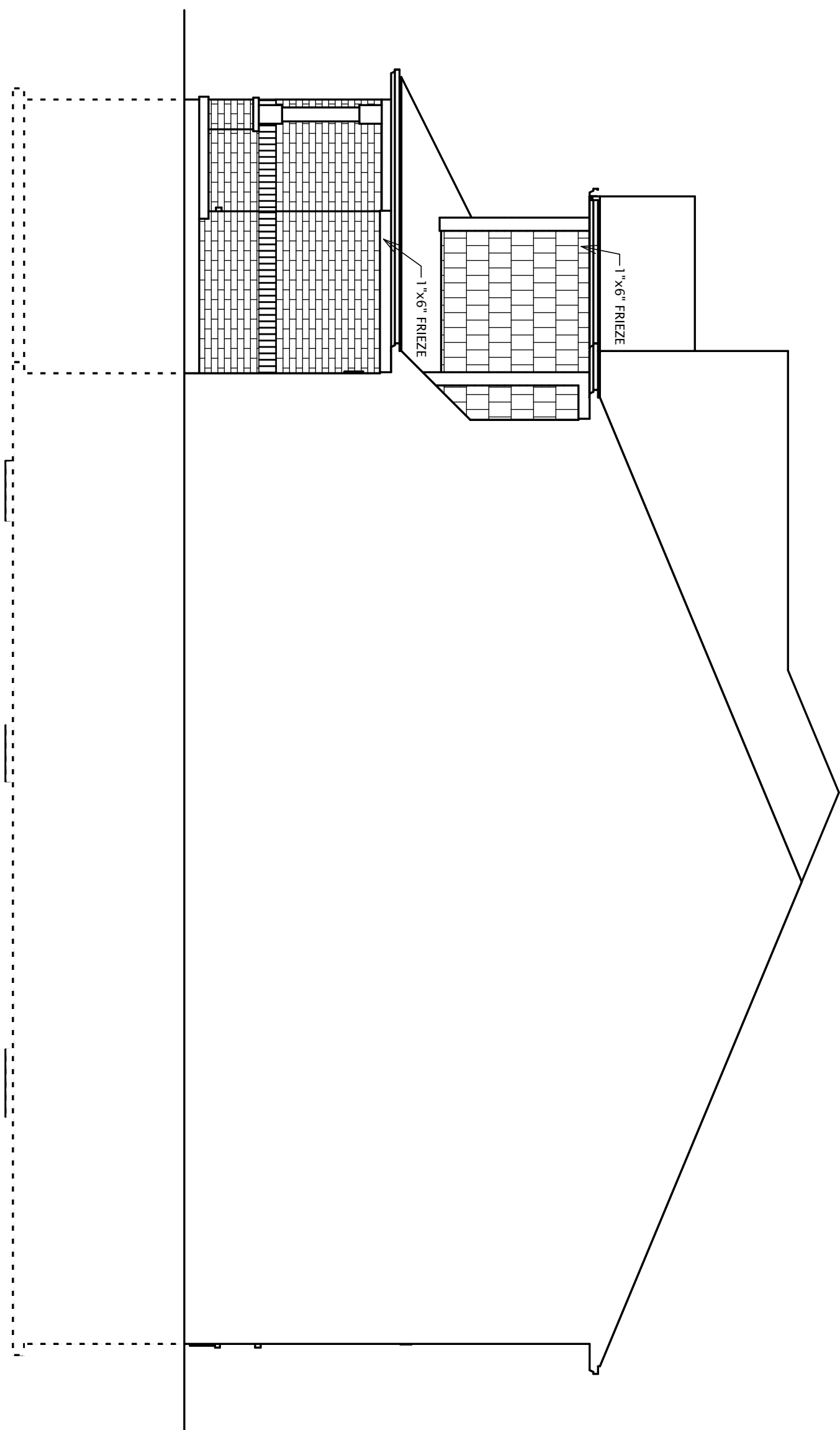
LEFT ELEVATION 'M1'



PROJECT NAME: <b>ASPEN</b>		PROJECT ID:	DATE: <b>March 2, 2021</b>	SCALE: <b>3/16" = 1'0"</b>	DRAWN BY: <b>TL</b>
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		 <b>MOUNTAINVIEW HOMES</b> <small>3350 MERRITTVILLE HWY #9, THOROLD, ONT.          PHONE: (905) 688-3100 FAX: (905) 688-5524</small>		PAGE: <b>2M OF 10</b>
PLAN NO: <b>00M-000</b>			BCIN: <b>22084</b>	DSG NR. SIG: _____	

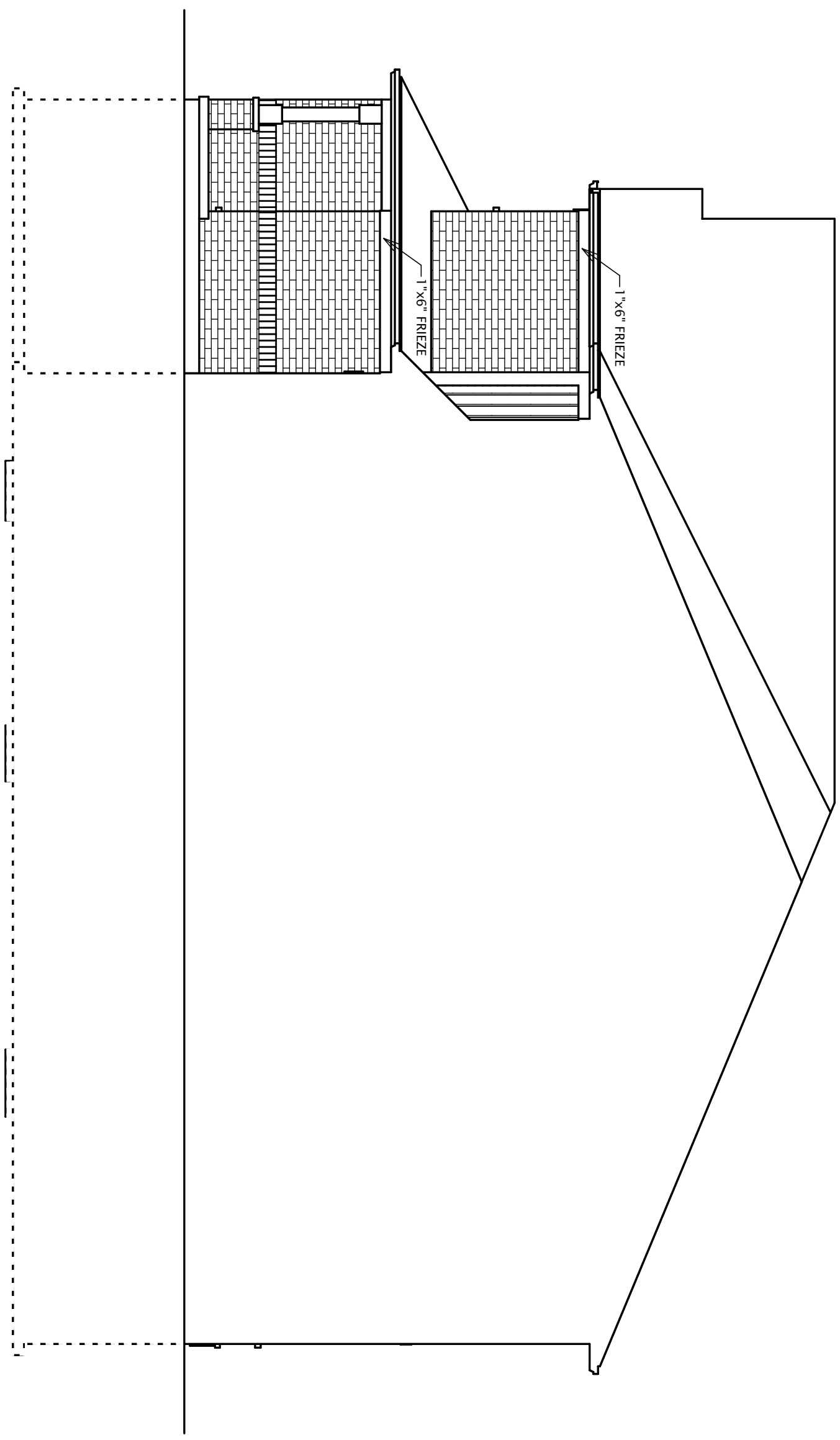


RIGHT ELEVATION 'A'



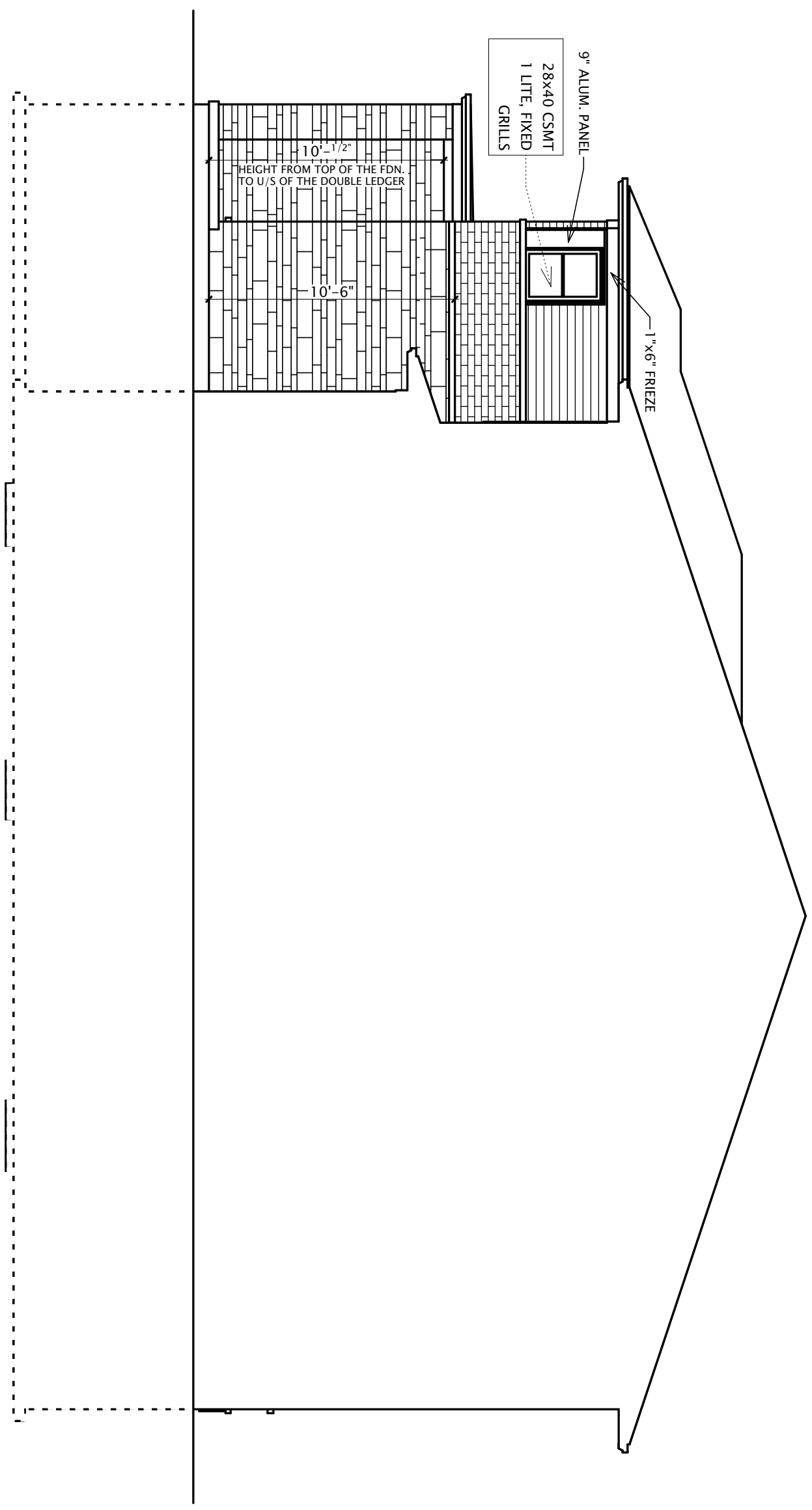
PROJECT NAME: <b>ASPEN</b>		PROJECT ID:	DATE: <b>March 2, 2021</b>	SCALE: <b>3/16" = 1'0"</b>	DRAWN BY: <b>TL</b>
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. <u>26105</u> .		PAGE: <b>3A OF 10</b>
PLAN NO: <b>00M-000</b>		 <b>MOUNTAINVIEW</b> HOMES <small>3350 MERRITTVILLE HWY #9, THOROLD, ONT.          PHONE: (905) 688-3100 FAX: (905) 688-5524</small>	BCIN: <b>22084</b>	DSG NR. SIG: _____	

RIGHT ELEVATION 'B'

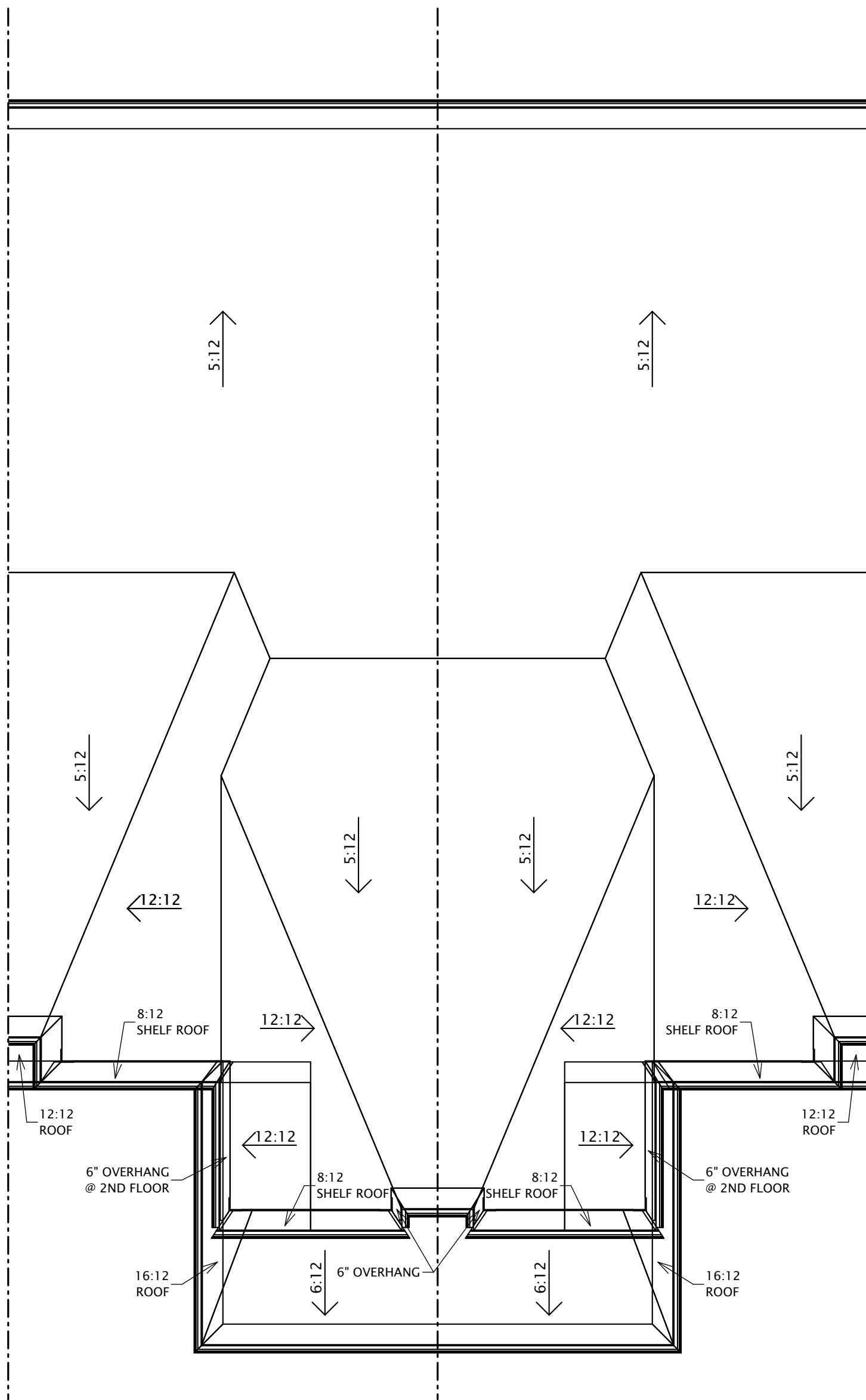


PROJECT NAME: <b>ASPEN</b>		PROJECT ID:	DATE: <b>March 2, 2021</b>	SCALE: <b>3/16" = 1'0"</b>	DRAWN BY: <b>TL</b>
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. <u>26105</u>		PAGE: <b>3B OF 10</b>
PLAN NO: <b>00M-000</b>		 <b>MOUNTAINVIEW HOMES</b> <small>3350 MERRITTVILLE HWY #9, THOROLD, ONT. PHONE: (905) 688-3100 FAX: (905) 688-5524</small>	BCIN: <b>22084</b>	DSG NR. SIG: _____	


RIGHT ELEVATION 'M2'



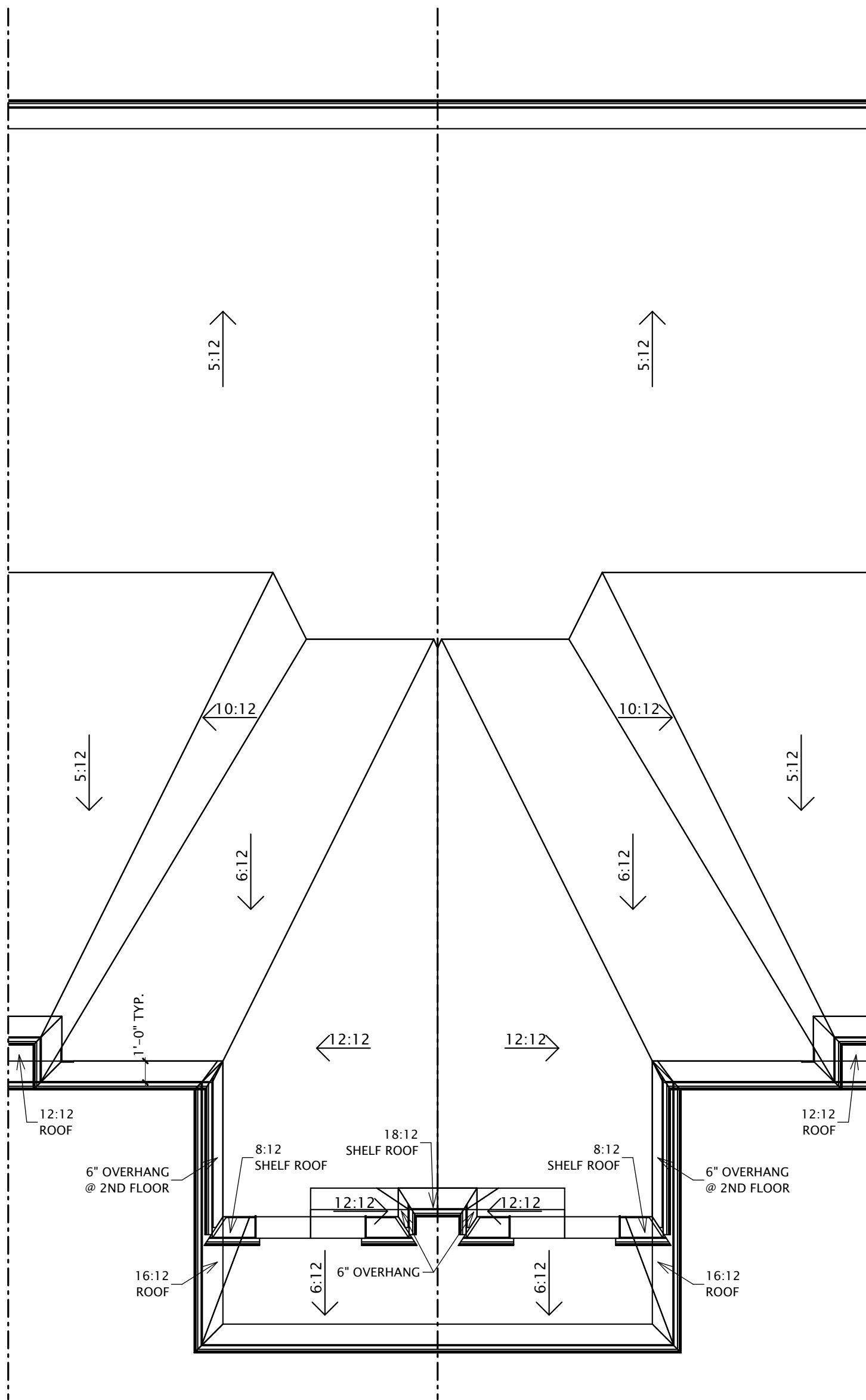
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LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		<b>TIM LUNDY</b> has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. <u>26105</u> .		PAGE: <b>3M OF 10</b>
PLAN NO: <b>00M-000</b>		<b>MOUNTAINVIEW HOMES</b> <small>3350 MERRITTVILLE HWY #9, THOROLD, ONT.          PHONE: (905) 688-3100 FAX: (905) 688-5524</small>		BCIN: <b>22084</b>	DSG NR. SIG: _____



ROOF PLAN 'A'

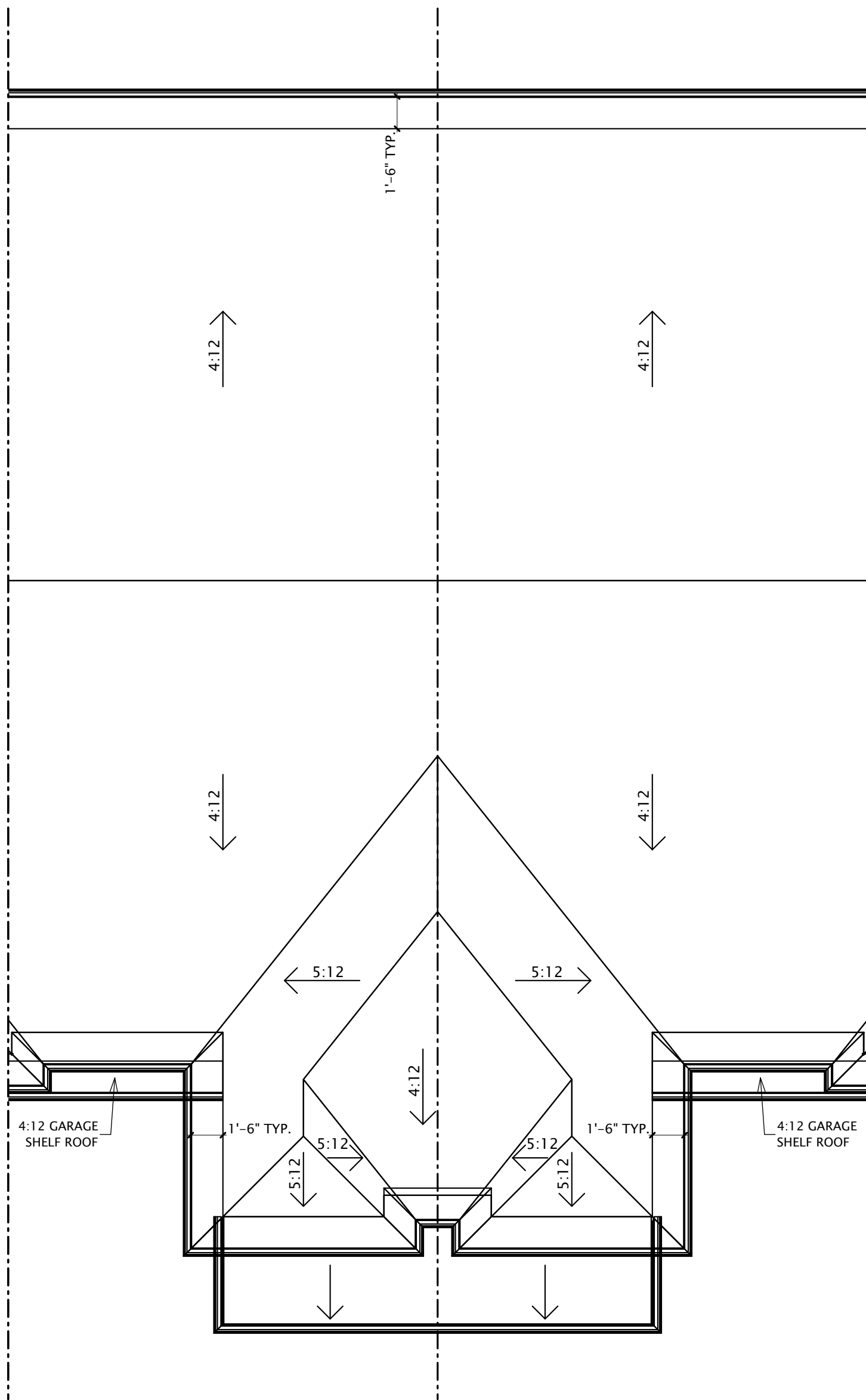
PROJECT NAME: <b>ASPEN</b>		PROJECT ID:	DATE: March 2, 2021	SCALE: 3/16" = 1'0"	DRAWN BY: TL
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		 <b>MOUNTAINVIEW HOMES</b> <small>3350 MERRITTVILLE HWY #9, THOROLD, ONT. PHONE: (905) 688-3100 FAX: (905) 688-5524</small>		PAGE: 4A OF 10
PLAN NO: <b>00M-000</b>			BCIN: <b>22084</b>	DSG NR. SIG:	

TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. 26105



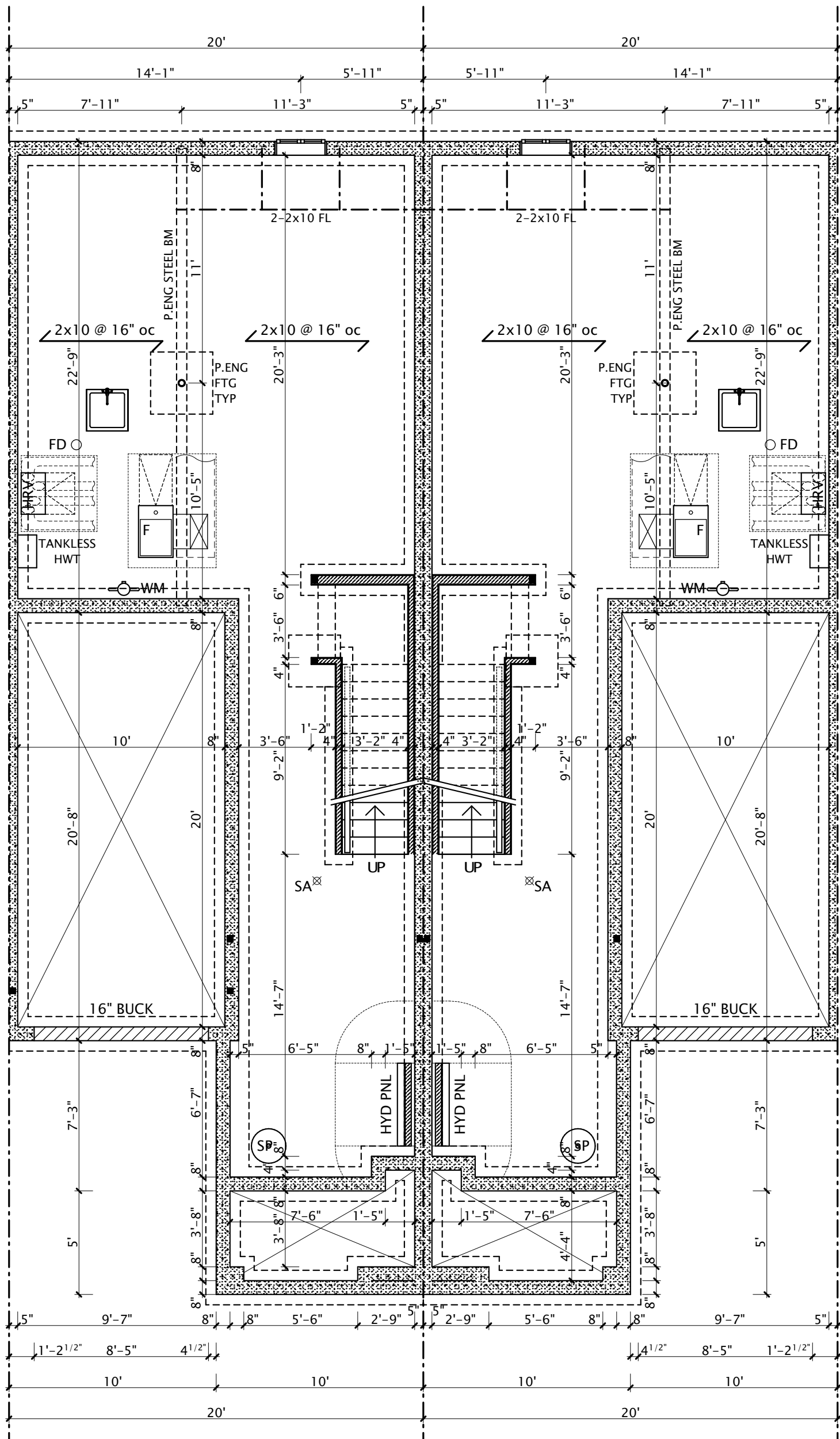
ROOF PLAN 'B'

PROJECT NAME: <b>ASPEN</b>		PROJECT ID:	DATE: March 2, 2021	SCALE: 3/16" = 1'0"	DRAWN BY: TL
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. <u>26105</u> .		PAGE: <b>4B OF 10</b>
PLAN NO: <b>00M-000</b>		 <b>MOUNTAINVIEW HOMES</b> <small>3350 MERRITTVILLE HWY #9, THOROLD, ONT. PHONE: (905) 688-3100 FAX: (905) 688-5524</small>	BCIN: <b>22084</b>	DSG NR. SIG:	




ROOF PLAN 'M1/M2'

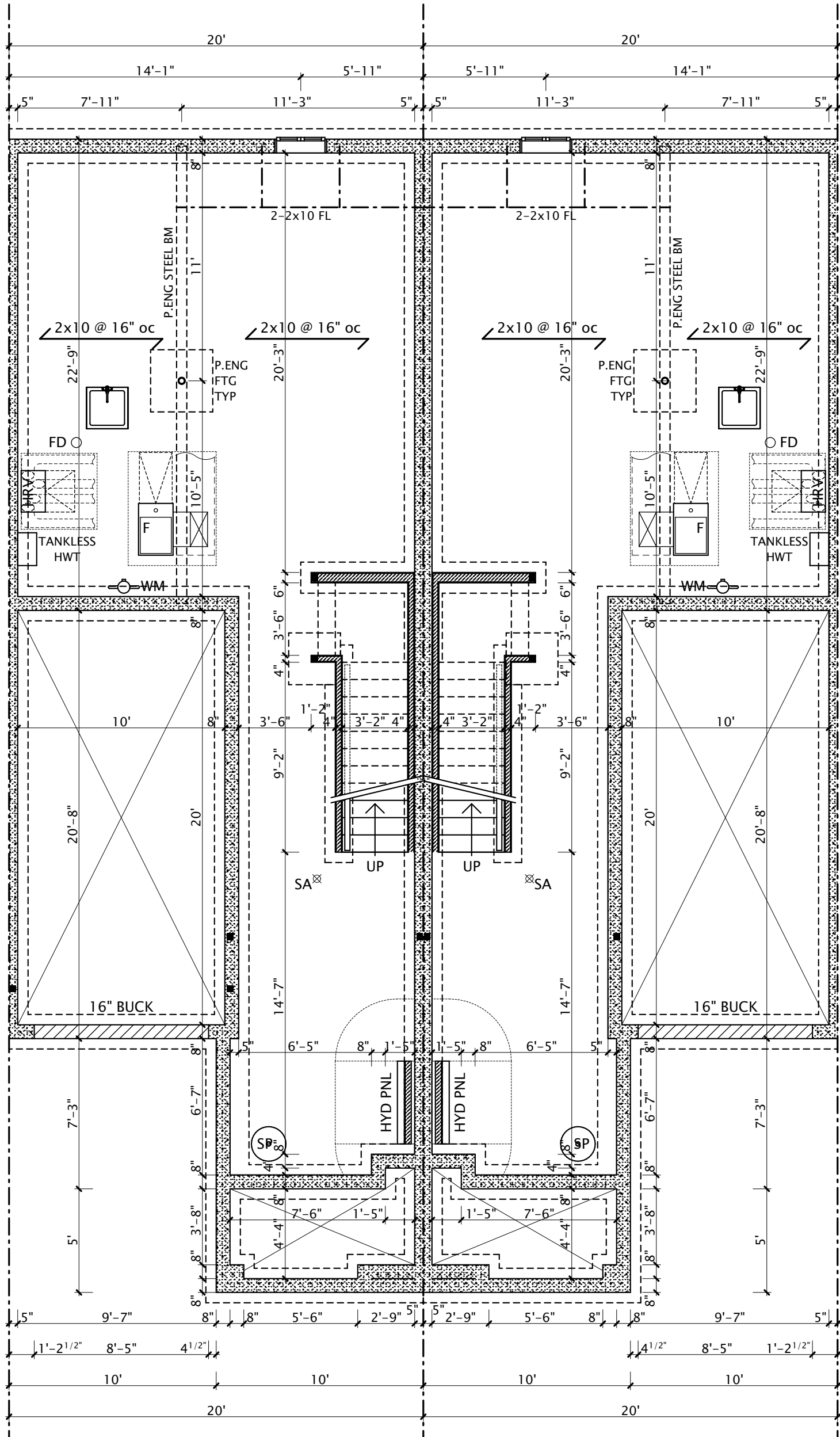
PROJECT NAME: <b>ASPEN</b>		PROJECT ID:	DATE: March 2, 2021	SCALE: 3/16" = 1'0"	DRAWN BY: TL
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. <u>26105</u> .		PAGE: <b>4M OF 10</b>
PLAN NO: <b>00M-000</b>		 <b>MOUNTAINVIEW HOMES</b> <small>3350 MERRITTVILLE HWY #9, THOROLD, ONT. PHONE: (905) 688-3100 FAX: (905) 688-5524</small>	BCIN: <b>22084</b>	DSG NR. SIG: _____	



BASEMENT  
ELEVATION 'A'

NOTE: ALL FLOORS GLUED & SCREWED  
WITH 1x2 STRAPPING

PROJECT NAME: <b>ASPEN</b>		PROJECT ID:	DATE: March 2, 2021	SCALE: 3/16" = 1'0"	DRAWN BY: TL
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. <u>26105</u> .		PAGE: <b>5A OF 10</b>
PLAN NO: <b>00M-000</b>	 <b>MOUNTAINVIEW HOMES</b> <small>3350 MERRITTVILLE HWY #9, THOROLD, ONT. PHONE: (905) 688-3100 FAX: (905) 688-5524</small>		BCIN: <b>22084</b>	DSG NR. SIG:	

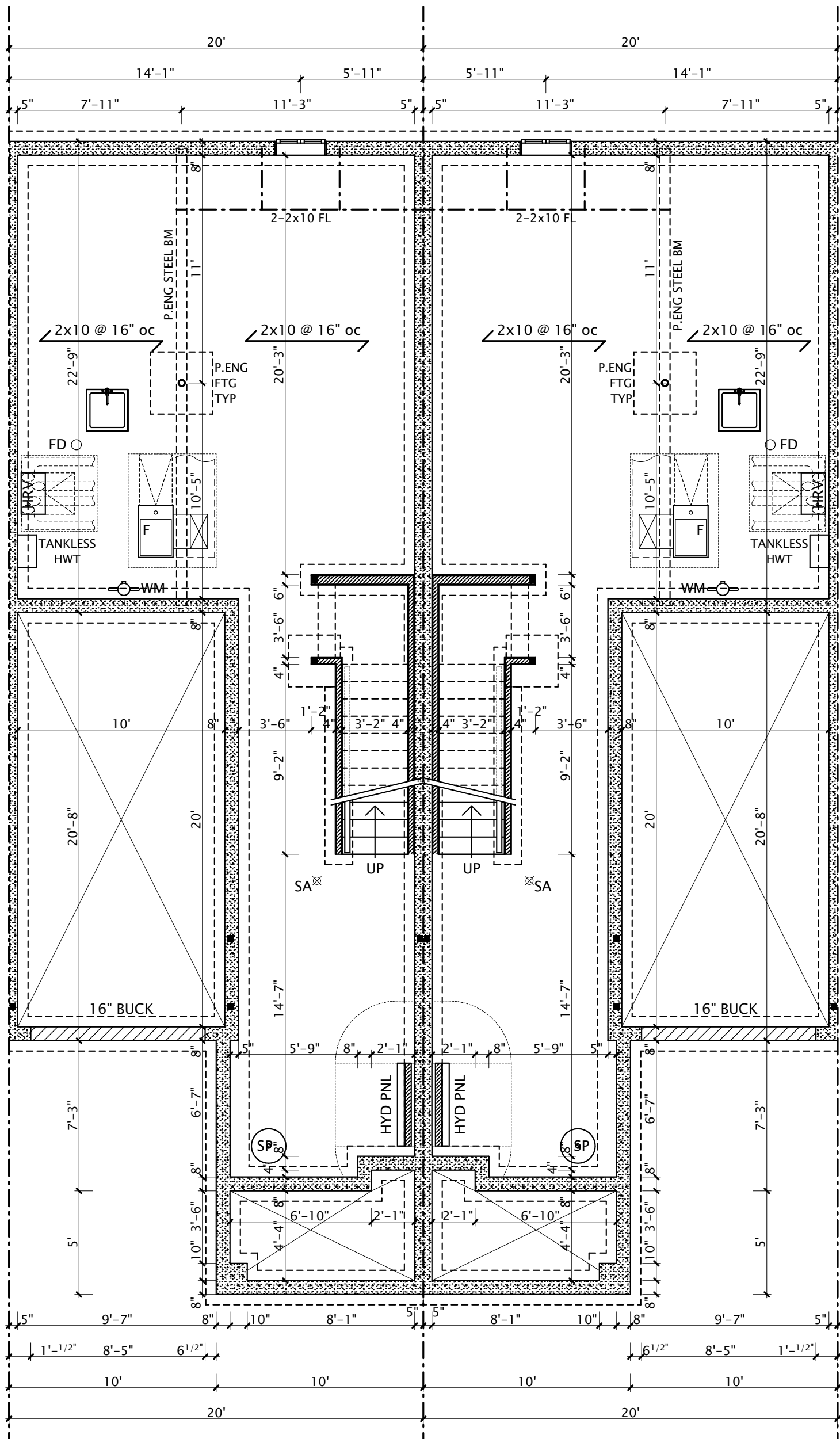


BASEMENT  
ELEVATION 'B'

NOTE: ALL FLOORS GLUED & SCREWED  
WITH 1x2 STRAPPING

PROJECT NAME: <b>ASPEN</b>		PROJECT ID:		DATE: March 2, 2021		SCALE: 3/16" = 1'0"		DRAWN BY: TL	
LOT: <b>00</b>		PROJECT ADDRESS: <b>STREET CITY, ON</b>		 <b>MOUNTAINVIEW HOMES</b> <small>3350 MERRITTVILLE HWY #9, THOROLD, ONT. PHONE: (905) 688-3100 FAX: (905) 688-5524</small>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. <u>26105</u> .		PAGE: <b>5B OF 10</b>	
PLAN NO: <b>00M-000</b>		BCIN: <b>22084</b> DSGNR. SIG:							



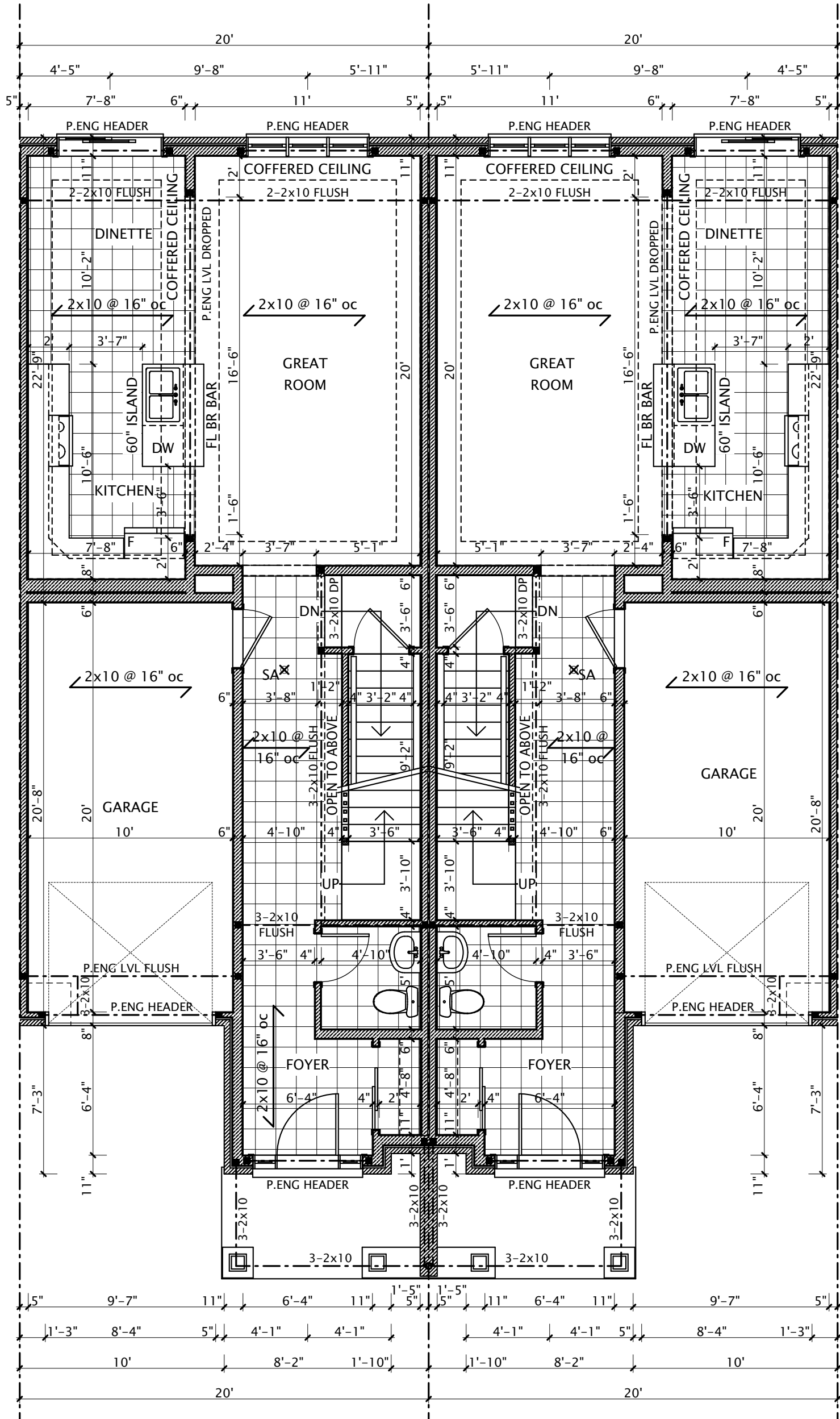


BASEMENT  
ELEVATION 'M1'

BASEMENT  
ELEVATION 'M2'

NOTE: ALL FLOORS GLUED & SCREWED  
WITH 1x2 STRAPPING

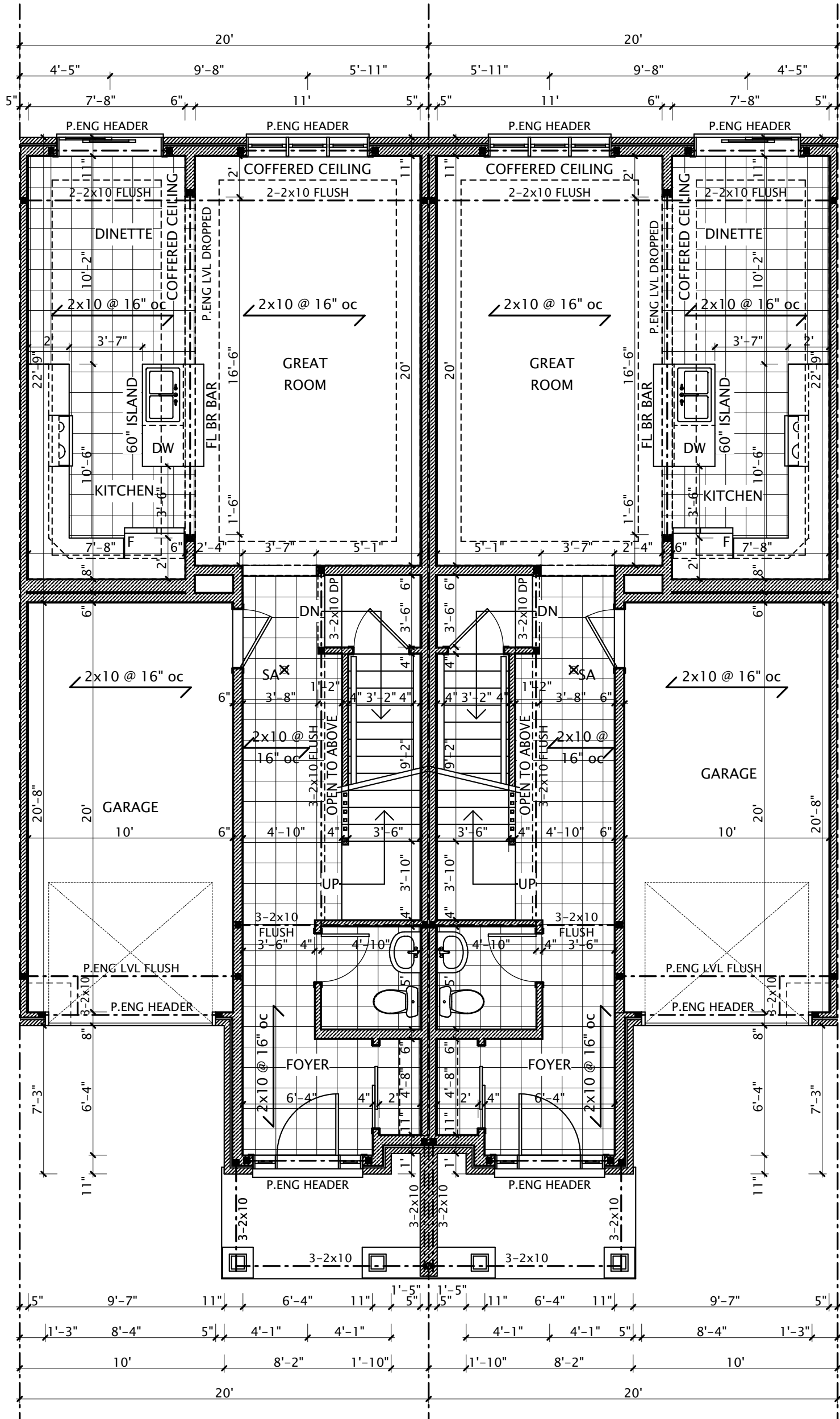
PROJECT NAME: <b>ASPEN</b>		PROJECT ID:		DATE: March 2, 2021		SCALE: 3/16" = 1'0"		DRAWN BY: TL	
LOT: <b>00</b>		PROJECT ADDRESS: <b>STREET CITY, ON</b>		 <b>MOUNTAINVIEW HOMES</b> <small>3350 MERRITTVILLE HWY #9, THOROLD, ONT. PHONE: (905) 688-3100 FAX: (905) 688-5524</small>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. <u>26105</u> .		PAGE: <b>5M OF 10</b>	
PLAN NO: <b>00M-000</b>						BCIN: <b>22084</b> DSGNR. SIG:			



MAIN FLOOR (8'0" CEILING)  
724 SQFT ELEV. 'A'


NOTE: ALL FLOORS GLUED & SCREWED  
WITH DRYWALL STRAPPING

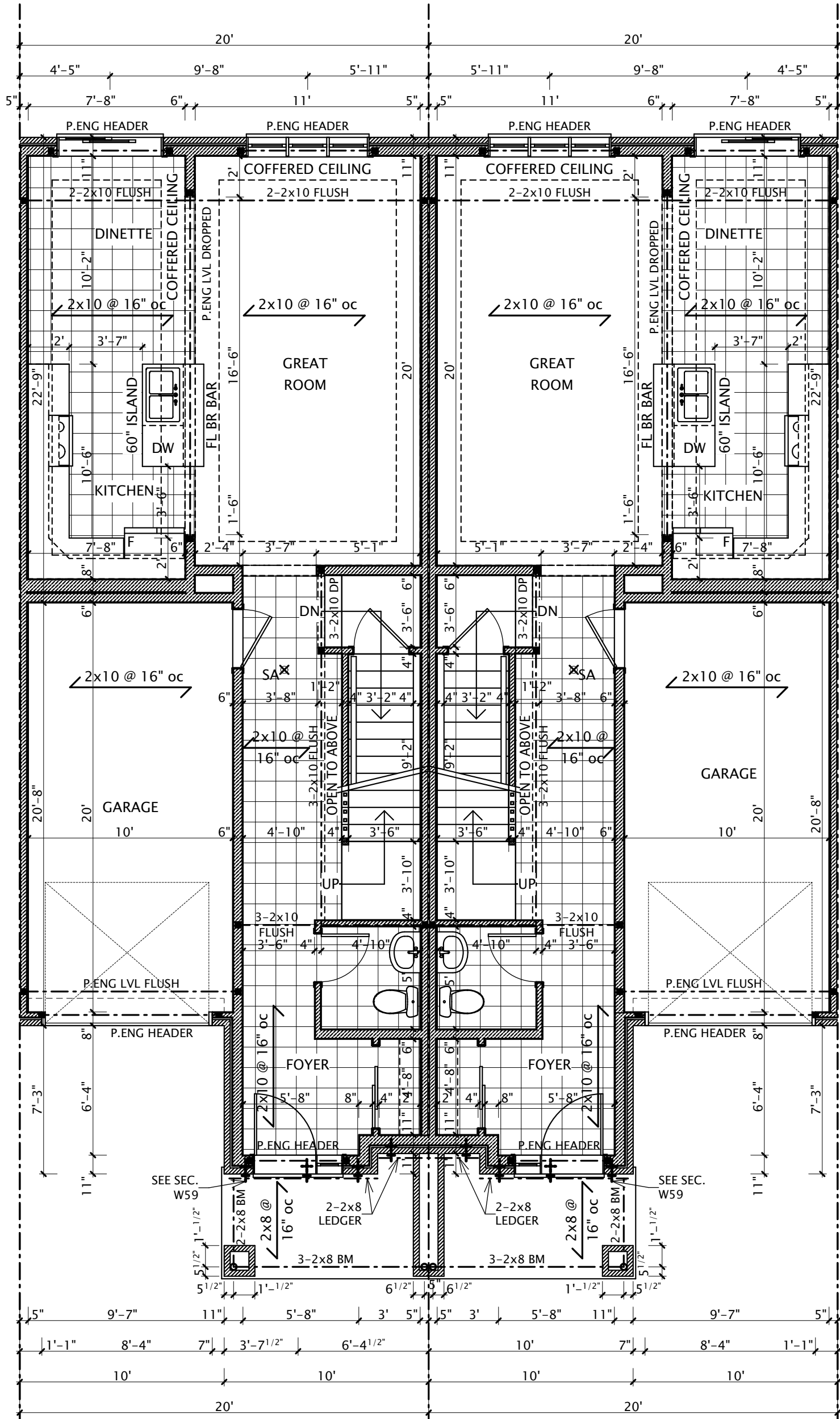
PROJECT NAME: <b>ASPEN</b>		PROJECT ID:		DATE: March 2, 2021		SCALE: 3/16" = 1'0"		DRAWN BY: TL	
LOT: <b>00</b>		PROJECT ADDRESS: <b>STREET CITY, ON</b>		 <b>MOUNTAINVIEW HOMES</b> <small>3350 MERRITTVILLE HWY #9, THOROLD, ONT. PHONE: (905) 688-3100 FAX: (905) 688-5524</small>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. 26105.		PAGE: <b>6A OF 10</b>	
PLAN NO: <b>00M-000</b>						BCIN: <b>22084</b>		DSG NR. SIG:	



MAIN FLOOR (8'0" CEILING)  
724 SQFT ELEV. 'B'

NOTE: ALL FLOORS GLUED & SCREWED  
WITH DRYWALL STRAPPING

PROJECT NAME: <b>ASPEN</b>		PROJECT ID:		DATE: March 2, 2021		SCALE: 3/16" = 1'0"		DRAWN BY: TL	
LOT: <b>00</b>		PROJECT ADDRESS: <b>STREET CITY, ON</b>		 <b>MOUNTAINVIEW HOMES</b> <small>3350 MERRITTVILLE HWY #9, THOROLD, ONT. PHONE: (905) 688-3100 FAX: (905) 688-5524</small>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. 26105		PAGE: <b>6B OF 10</b>	
PLAN NO: <b>00M-000</b>		BCIN: <b>22084</b> DSGNR. SIG:							

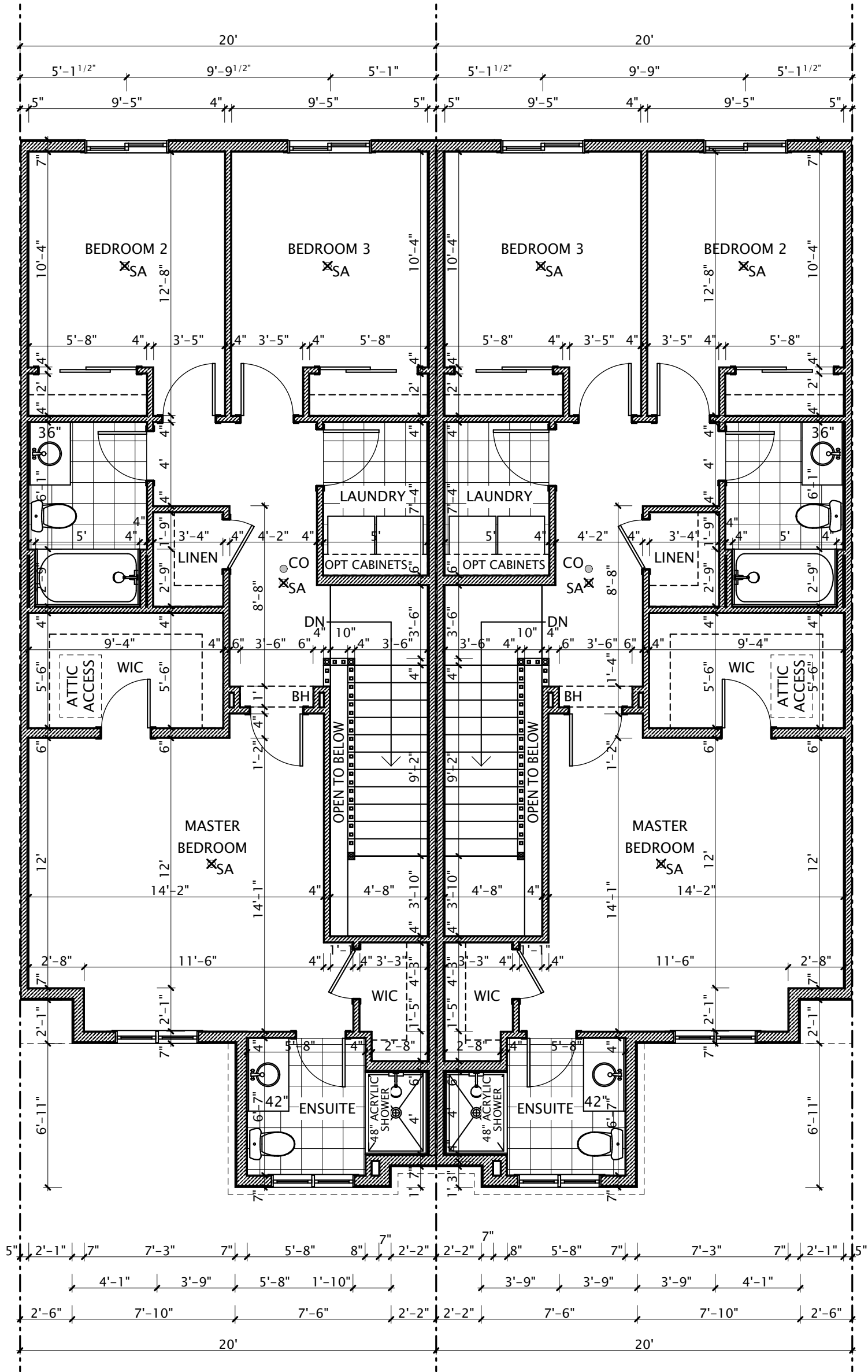


MAIN FLOOR (8'0" CEILING)  
723 SQFT ELEV. 'M1'

MAIN FLOOR (8'0" CEILING)  
723 SQFT ELEV. 'M2'

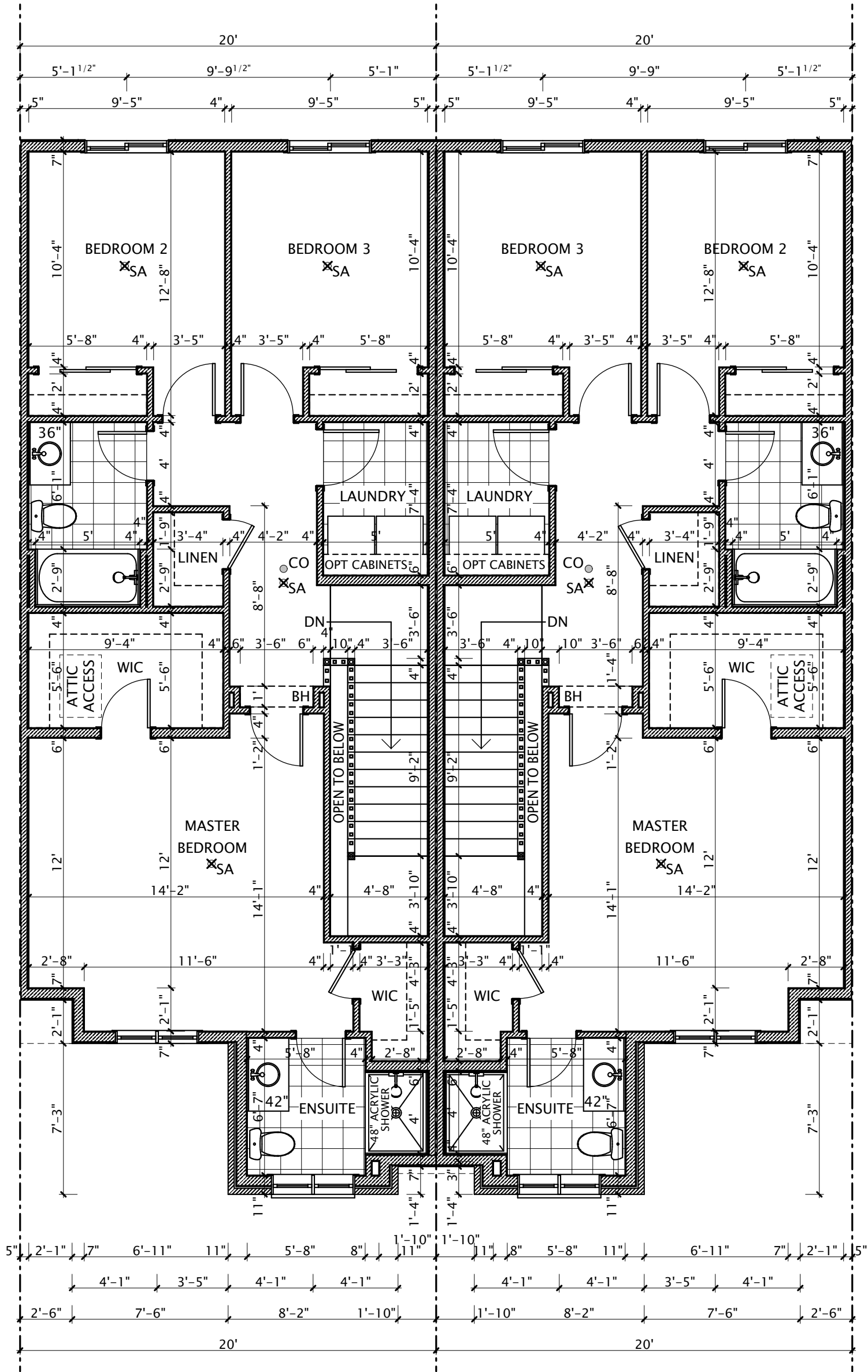
NOTE: ALL FLOORS GLUED & SCREWED  
WITH DRYWALL STRAPPING

PROJECT NAME: <b>ASPEN</b>		PROJECT ID:		DATE: March 2, 2021		SCALE: 3/16" = 1'0"		DRAWN BY: TL	
LOT: <b>00</b>		PROJECT ADDRESS: <b>STREET CITY, ON</b>		 <b>MOUNTAINVIEW HOMES</b> <small>3350 MERRITTVILLE HWY #9, THOROLD, ONT. PHONE: (905) 688-3100 FAX: (905) 688-5524</small>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. 26105.		PAGE: <b>6M OF 10</b>	
PLAN NO: <b>00M-000</b>						BCIN: <b>22084</b>		DSG NR. SIG:	



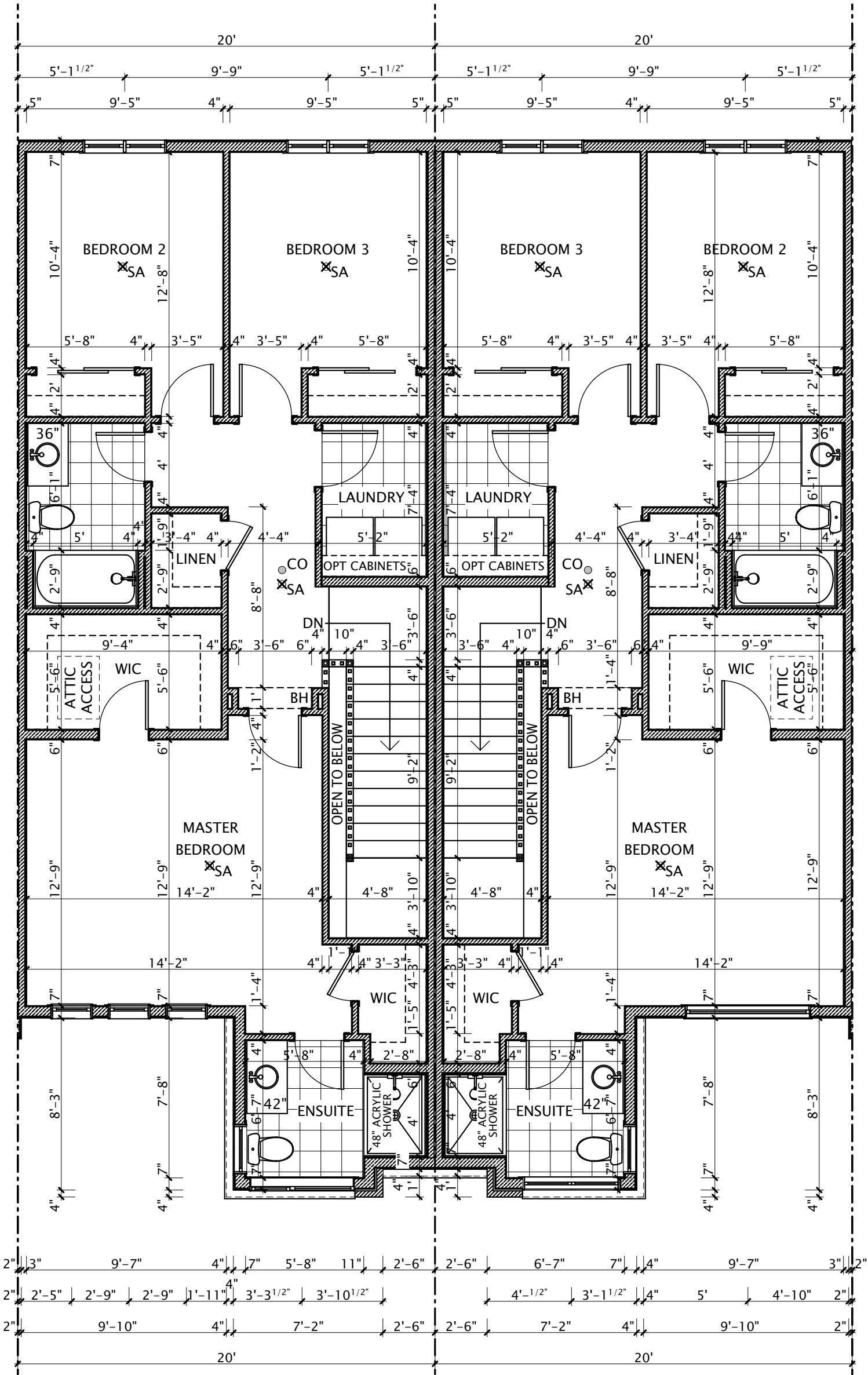
SECOND FLOOR  
917 SQFT ELEV. 'A'

PROJECT NAME: <b>ASPEN</b>		PROJECT ID:	DATE: March 2, 2021	SCALE: 3/16" = 1'0"	DRAWN BY: TL
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Taron no. 26105.		PAGE: <b>7A OF 10</b>
PLAN NO: <b>00M-000</b>	 <b>MOUNTAINVIEW HOMES</b> <small>3350 MERRITTVILLE HWY #9, THOROLD, ONT. PHONE: (905) 688-3100 FAX: (905) 688-5524</small>		BCIN: <b>22084</b>	DSG NR. SIG:	




SECOND FLOOR  
922 SQFT ELEV. 'B'

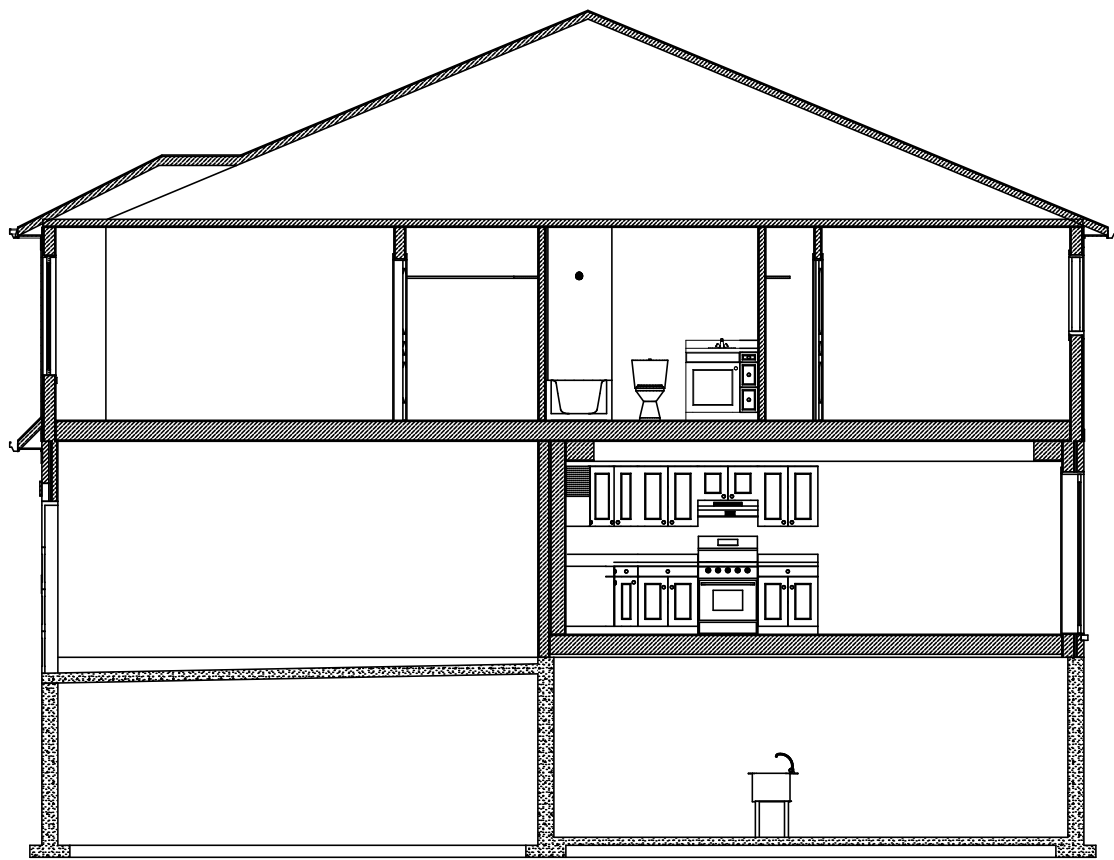
PROJECT NAME: <b>ASPEN</b>		PROJECT ID:	DATE: March 2, 2021	SCALE: 3/16" = 1'0"	DRAWN BY: TL
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Taron no. 26105.		PAGE: <b>7B OF 10</b>
PLAN NO: <b>00M-000</b>	 <b>MOUNTAINVIEW HOMES</b> <small>3350 MERRITTVILLE HWY #9, THOROLD, ONT. PHONE: (905) 688-3100 FAX: (905) 688-5524</small>		BCIN: <b>22084</b>	DSG NR. SIG:	



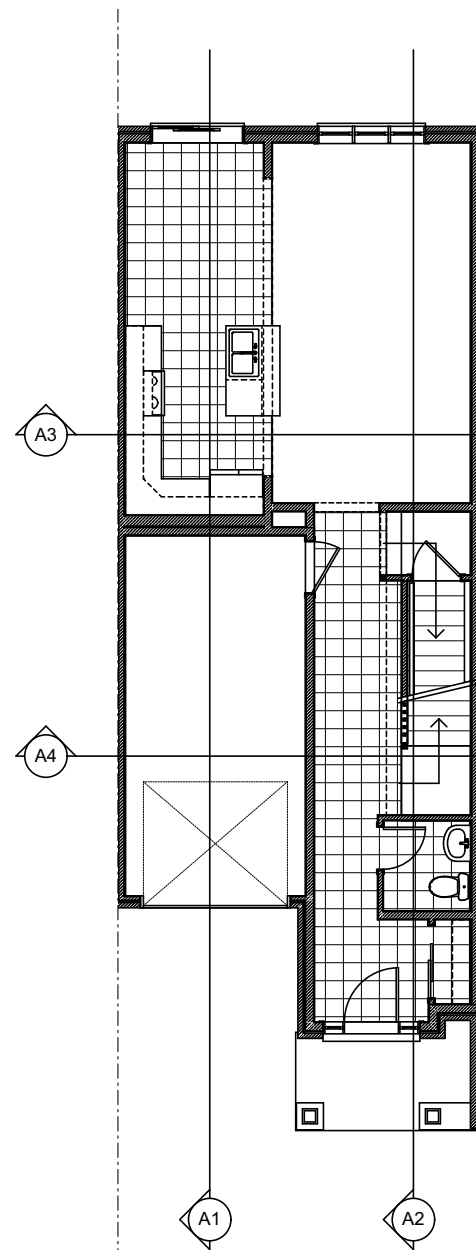
SECOND FLOOR  
914 SQFT ELEV. 'M1'

SECOND FLOOR  
914 SQFT ELEV. 'M2'

PROJECT NAME: <b>ASPEN</b>		PROJECT ID:	DATE: March 2, 2021	SCALE: 3/16" = 1'0"	DRAWN BY: TL
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Taron no. 26105.		PAGE: <b>7M OF 10</b>
PLAN NO: <b>00M-000</b>	 <b>MOUNTAINVIEW HOMES</b> <small>3350 MERRITTVILLE HWY #9, THOROLD, ONT. PHONE: (905) 688-3100 FAX: (905) 688-5524</small>		BCIN: <b>22084</b>	DSG NR. SIG:	



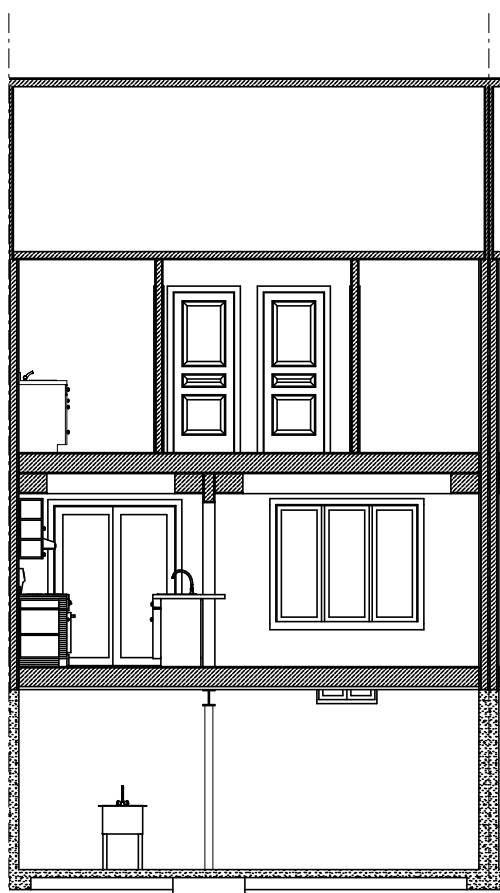
A1



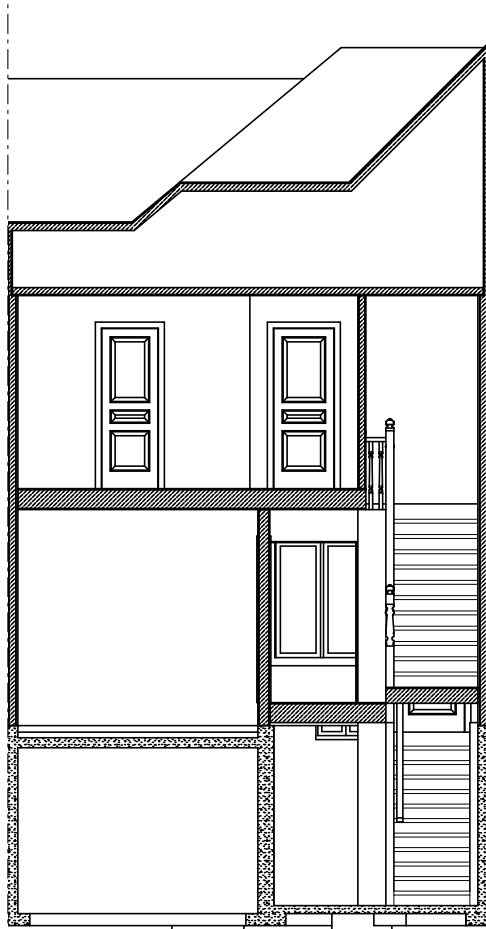
A2

PROJECT NAME: <b>ASPEN</b>		PROJECT ID:	DATE: <b>March 2, 2021</b>	SCALE: <b>1/8" = 1'0"</b>	DRAWN BY: <b>TL</b>
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. <u>26105</u> .		PAGE: <b>8 OF 10</b>
PLAN NO: <b>00M-000</b>		 <b>MOUNTAINVIEW</b> HOMES <small>3350 MERRITTVILLE HWY #9, THOROLD, ONT.          PHONE: (905) 688-3100 FAX: (905) 688-5524</small>	BCIN: <b>22084</b>	DSG NR. SIG: _____	

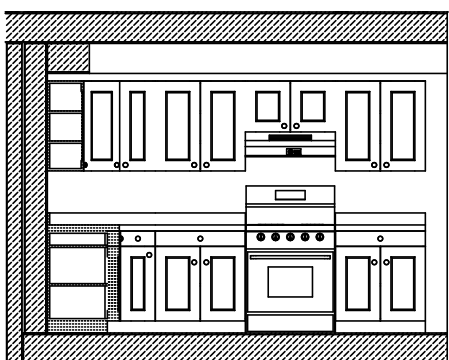




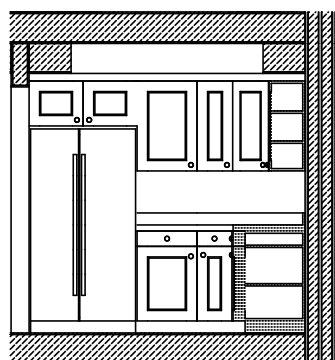
A3  
1/8" = 1'0"



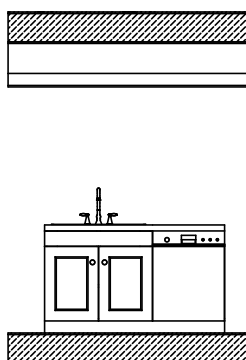
A4



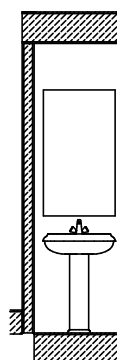
K1  
3/16" = 1'0"



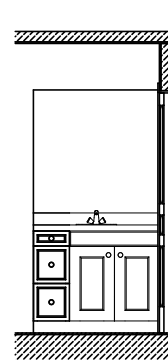
K2



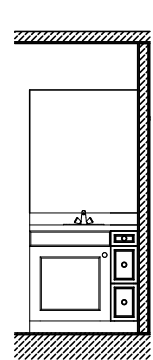
K3




V1

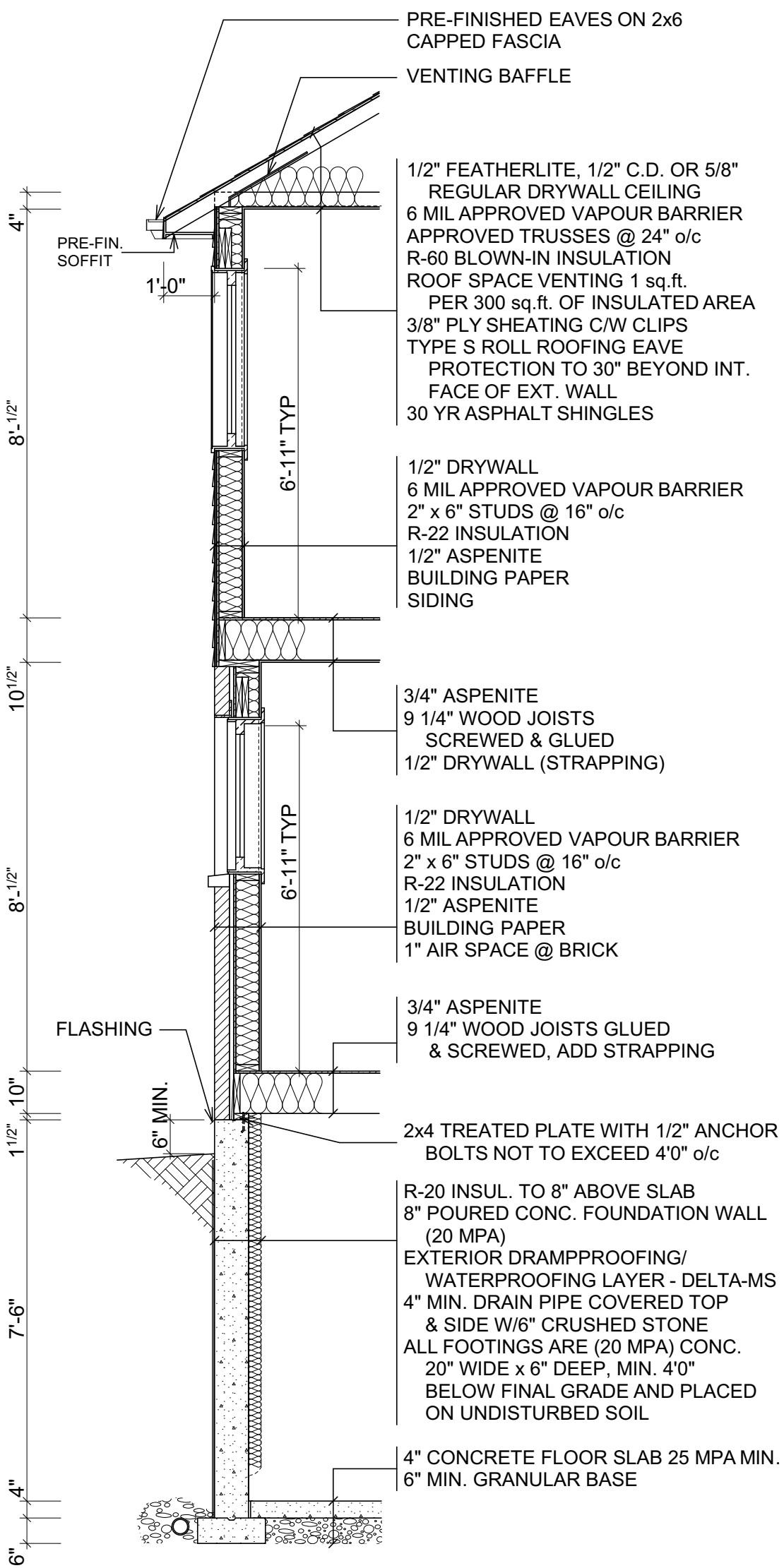


V2



V3

PROJECT NAME: <b>ASPEN</b>		PROJECT ID:	DATE: <b>March 2, 2021</b>	SCALE:	DRAWN BY: <b>TL</b>
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. <u>26105</u> .		PAGE: <b>9 OF 10</b>
PLAN NO: <b>00M-000</b>		 <b>MOUNTAINVIEW HOMES</b> <small>3350 MERRITTVILLE HWY #9, THOROLD, ONT.          PHONE: (905) 688-3100 FAX: (905) 688-5524</small>	BCIN: <b>22084</b>	DSG NR. SIG: _____	



W5 **TWO STOREY  
8' CEILING SECTION**

**MAXIMUM ALLOWABLE SPANS FOR STEEL LINTELS SUPPORTING MASONRY VENEER (FROM TABLE 9.20.5.2.B OBC 2012)**

ANGLE SIZE (VERT. LEG x HORIZ. LEG x THICKNESS)	MAX ALLOWABLE SPAN	
	3 1/2" BRICK	4" STONE
4" x 3 1/2" x 1/4"	8'9"	
4 7/8" x 3 1/2" x 5/16"		10'1"
5 7/8" x 3 1/2" x 3/8"	12'7"	
5 7/8" x 4" x 1/2"		12'7"

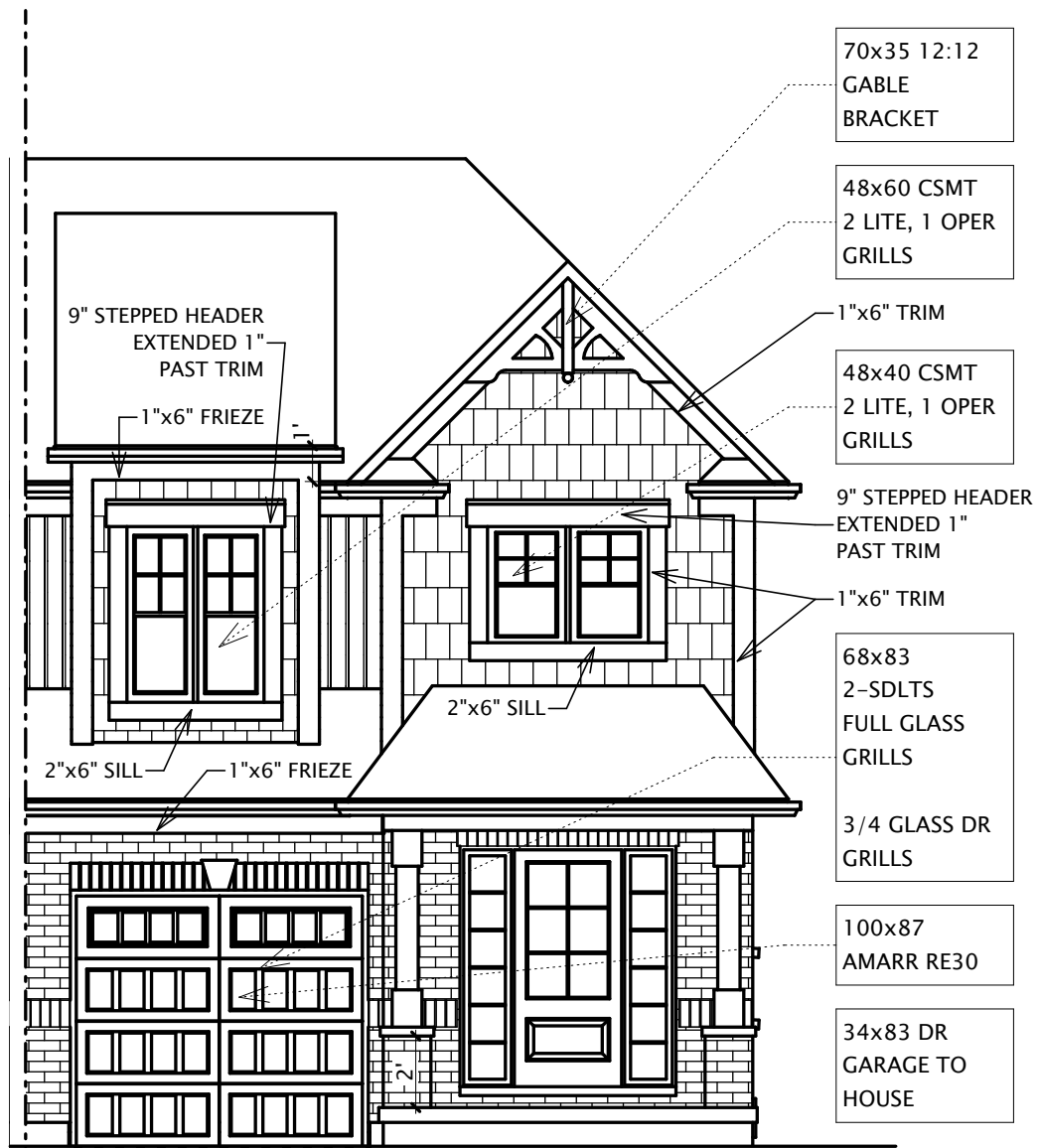
**MAXIMUM SPANS FOR EXTERIOR S-P-F LINTELS No. 1 OR No. 2 GRADE - NON-STRUCTURAL SHEATHING (FROM TABLE A-15 OBC 2012) NO POINT LOADS SEE "NOTES TO TABLE A-15" FOR ALLOWABLE SPAN INCREASES**

LINTEL SUPPORTING AND LINTEL SIZE (INCH)	SNOW LOAD		
	UNDER 1.5kPA	1.5kPA-2.5kPA	2.5kPA-3.0kPA
	GRIMSBY 0.9 kPA ST. CATH 1.0 kPA THOROLD 1.0 kPA NOTL 1.0 kPA	NIAGARA F 2.0 kPA KITCHENER 2.0 kPA WELLAND 2.2 kPA PELHAM 2.3 kPA	RIDGEWAY 2.5 kPA FORT ERIE 2.6 kPA
ROOF AND CEILING ONLY 2-2x10 (TRIB WIDTH 4.9m MAX)	1.0 kPA - 9'5" (2.88m) 1.5 kPA - 8'1" (2.47m)	2.0 kPA - 7'2" (2.20m) 2.5 kPA - 6'7" (2.01m)	2.5 kPA - 6'7" (2.01m) 3.0 kPA - 6'0" (1.84m)
ROOF, CEIL & 1 STOREY 2-2x10	1.0 kPA - 7'3" (2.22m) 1.5 kPA - 6'8" (2.04m)	2.0 kPA - 6'2" (1.89m) 2.5 kPA - 5'8" (1.73m)	2.5 kPA - 5'8" (1.73m) 3.0 kPA - 5'2" (1.59m)
ROOF, CEIL & 2 STOREY 2-2x10	1.0 kPA - 6'6" (1.99m) 1.5 kPA - 6'1" (1.87m)	2.0 kPA - 5'7" (1.72m) 2.5 kPA - 5'3" (1.60m)	2.5 kPA - 5'3" (1.60m) 3.0 kPA - 4'11" (1.50m)
ROOF AND CEILING ONLY 2-2x12 (TRIB WIDTH 4.9m MAX)	1.0 kPA - 10'11" (3.34m) 1.5 kPA - 9'5" (2.87m)	2.0 kPA - 8'4" (2.56m) 2.5 kPA - 7'7" (2.33m)	2.5 kPA - 7'7" (2.33m) 3.0 kPA - 6'10" (2.09m)
ROOF, CEIL & 1 STOREY 2-2x12	1.0 kPA - 8'5" (2.58m) 1.5 kPA - 7'9" (2.36m)	2.0 kPA - 7'0" (2.15m) 2.5 kPA - 6'5" (1.96m)	2.5 kPA - 6'5" (1.96m) 3.0 kPA - 5'11" (1.81m)
ROOF, CEIL & 2 STOREY 2-2x12	1.0 kPA - 7'7" (2.31m) 1.5 kPA - 6'11" (2.12m)	2.0 kPA - 6'5" (1.96m) 2.5 kPA - 5'11" (1.82m)	2.5 kPA - 5'11" (1.82m) 3.0 kPA - 5'7" (1.71m)

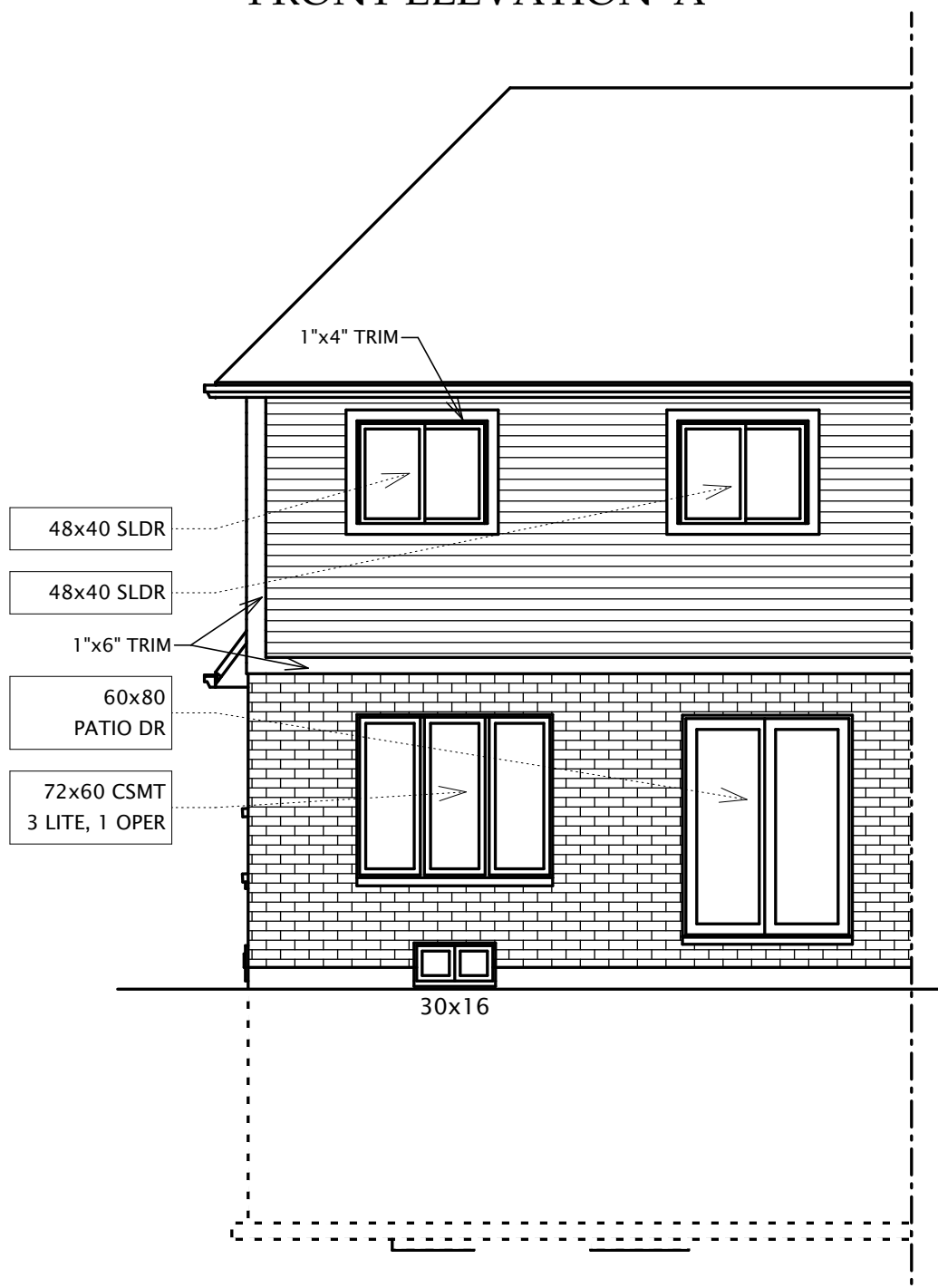
**MOUNTAINVIEW INTERIOR/EXTERIOR DOOR LOCATIONS AND SIZES**

LOCATION	RSO	FINISHED
BEDROOMS/OFFICE/DEN/OTHER	32"x83"	30"x81 1/2"
WASHROOMS/WIC	30"x83"	28"x81 1/2"
BASEMENT/LAUNDRY	34"x83"	32"x81 1/2"
48" CLOSET SLIDERS	49"x84"	47"x82 1/2"
60" CLOSET SLIDERS	61"x84"	59"x82 1/2"
72" CLOSET SLIDERS	73"x84"	71"x82 1/2"
FRONT ENTRY MAN DOOR		36"x81 1/2"
DOOR FROM GARAGE TO INT.		32"x81 1/2"
DOOR FROM GARAGE TO EXT.		32"x81 1/2"

PROJECT NAME: <b>ASPEN</b>	PROJECT ID:	<p><b>MOUNTAINVIEW HOMES</b> 3350 MERRITTVILLE HWY #9, THOROLD, ONT. PHONE: (905) 688-3100 FAX: (905) 688-5524</p>	DATE: <b>March 2, 2021</b>	SCALE: <b>3/8" = 1'0"</b>	DRAWN BY: <b>TL</b>
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		<p>TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. <u>26105</u></p> <p>BCIN: <b>22084</b> DSGNR. SIG: _____</p>	PAGE: <b>10 OF 10</b>	
PLAN NO: <b>00M-000</b>					

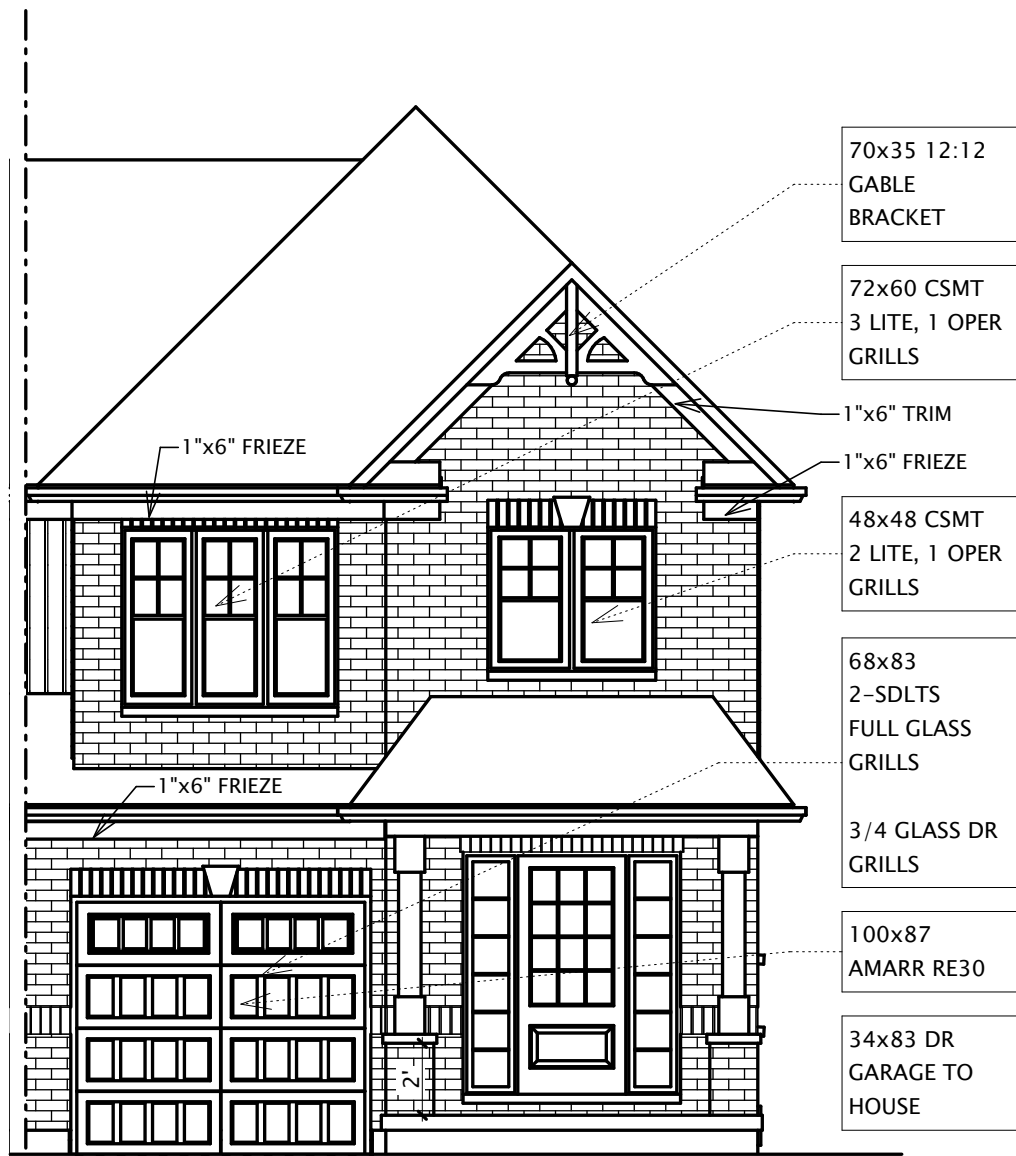


FRONT ELEVATION 'A'



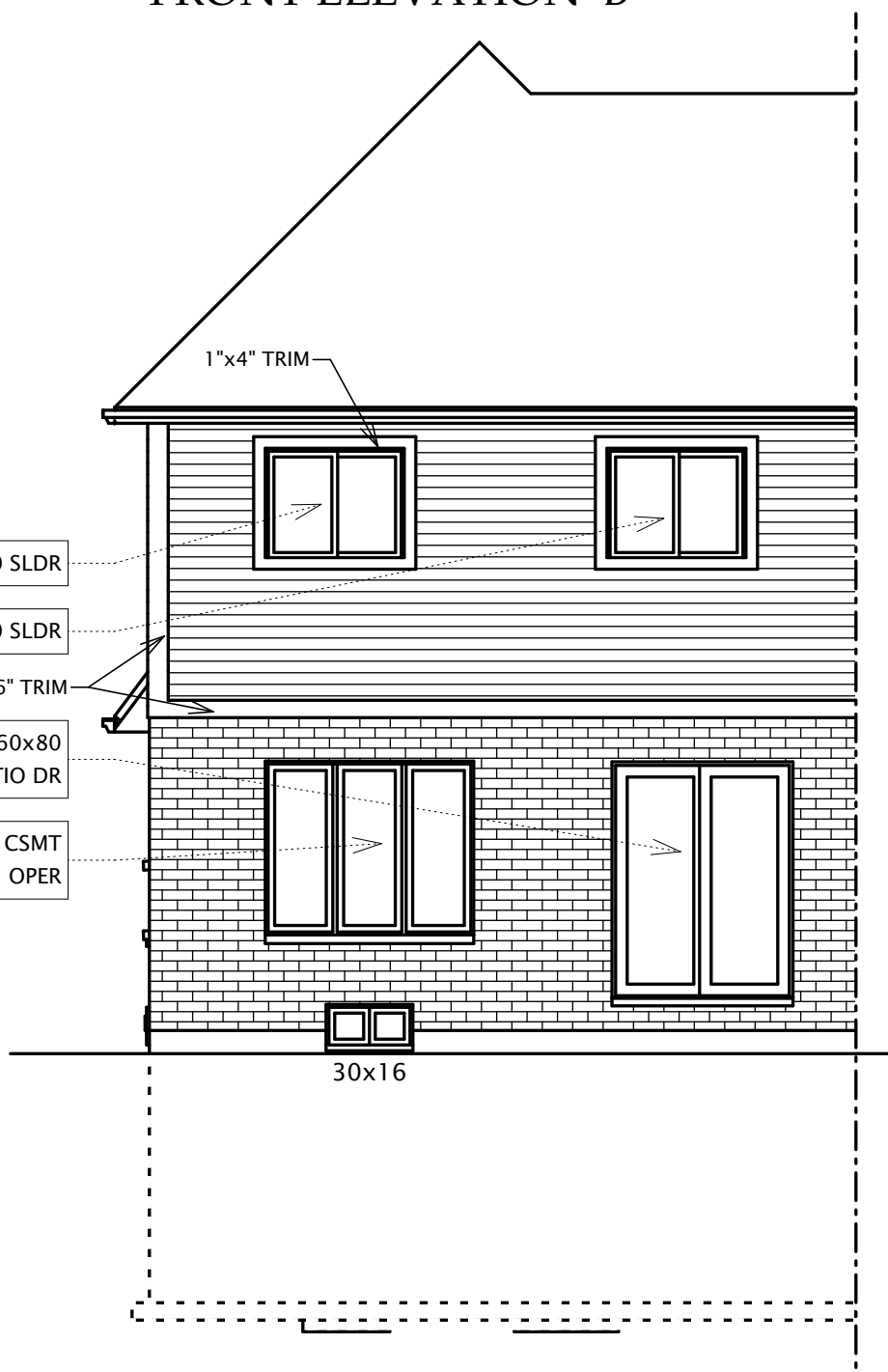
BACK ELEVATION 'A'

PROJECT NAME: <b>LENNON</b>		PROJECT ID:	DATE: March 2, 2021	SCALE: 3/16" = 1'0"	DRAWN BY: TL
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. <u>26105</u> .		PAGE: <b>1A OF 10</b>
PLAN NO: <b>00M-000</b>	 <b>MOUNTAINVIEW HOMES</b> <small>3350 MERRITTVILLE HWY #9, THOROLD, ONT. PHONE: (905) 688-3100 FAX: (905) 688-5524</small>		BCIN: <b>22084</b>	DSG NR. SIG:	



- 70x35 12:12  
GABLE  
BRACKET
- 72x60 CSMT  
3 LITE, 1 OPER  
GRILLS
- 1"x6" TRIM
- 1"x6" FRIEZE
- 48x48 CSMT  
2 LITE, 1 OPER  
GRILLS
- 68x83  
2-SDLTS  
FULL GLASS  
GRILLS
- 3/4 GLASS DR  
GRILLS
- 100x87  
AMARR RE30
- 34x83 DR  
GARAGE TO  
HOUSE

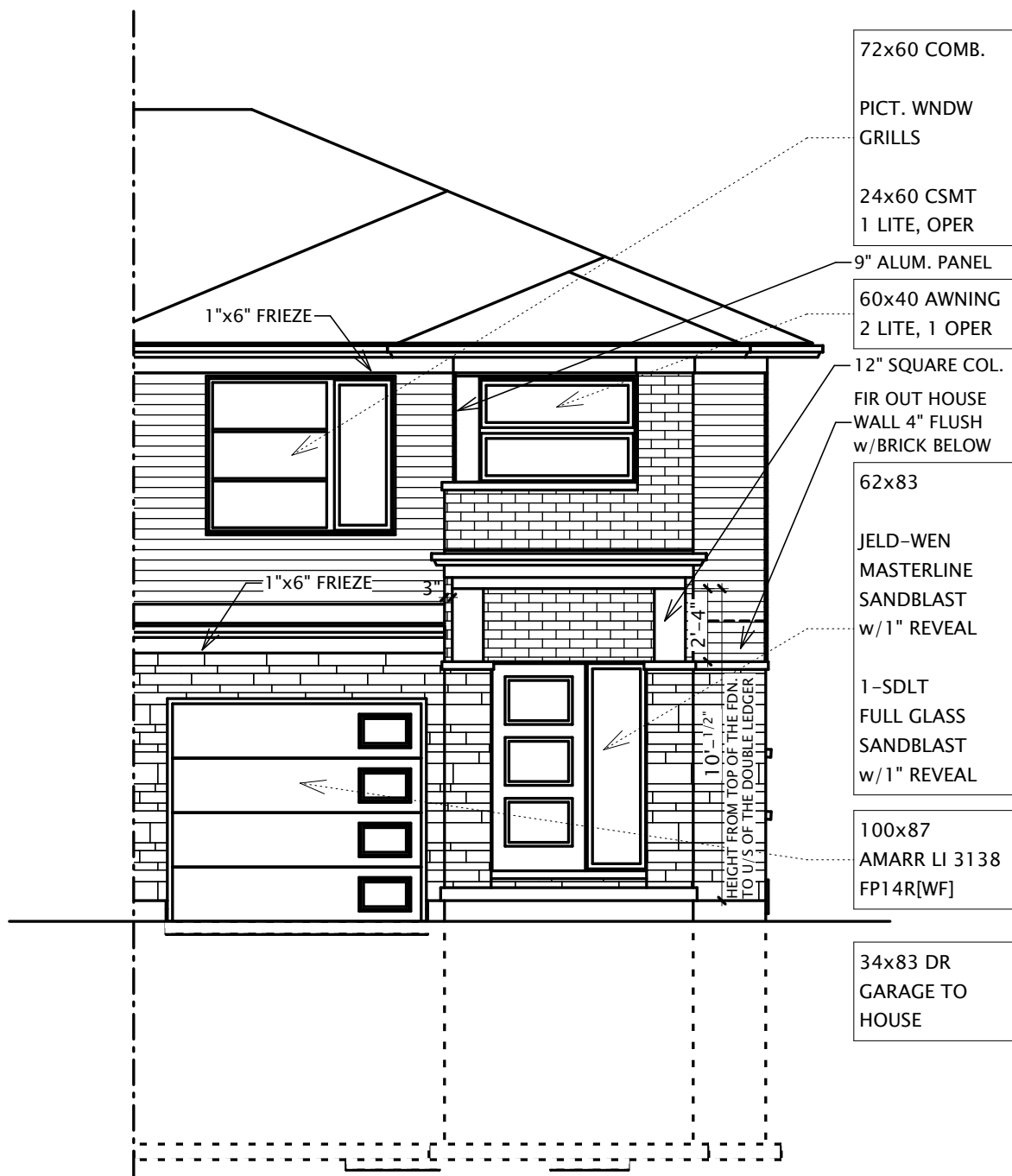
FRONT ELEVATION 'B'



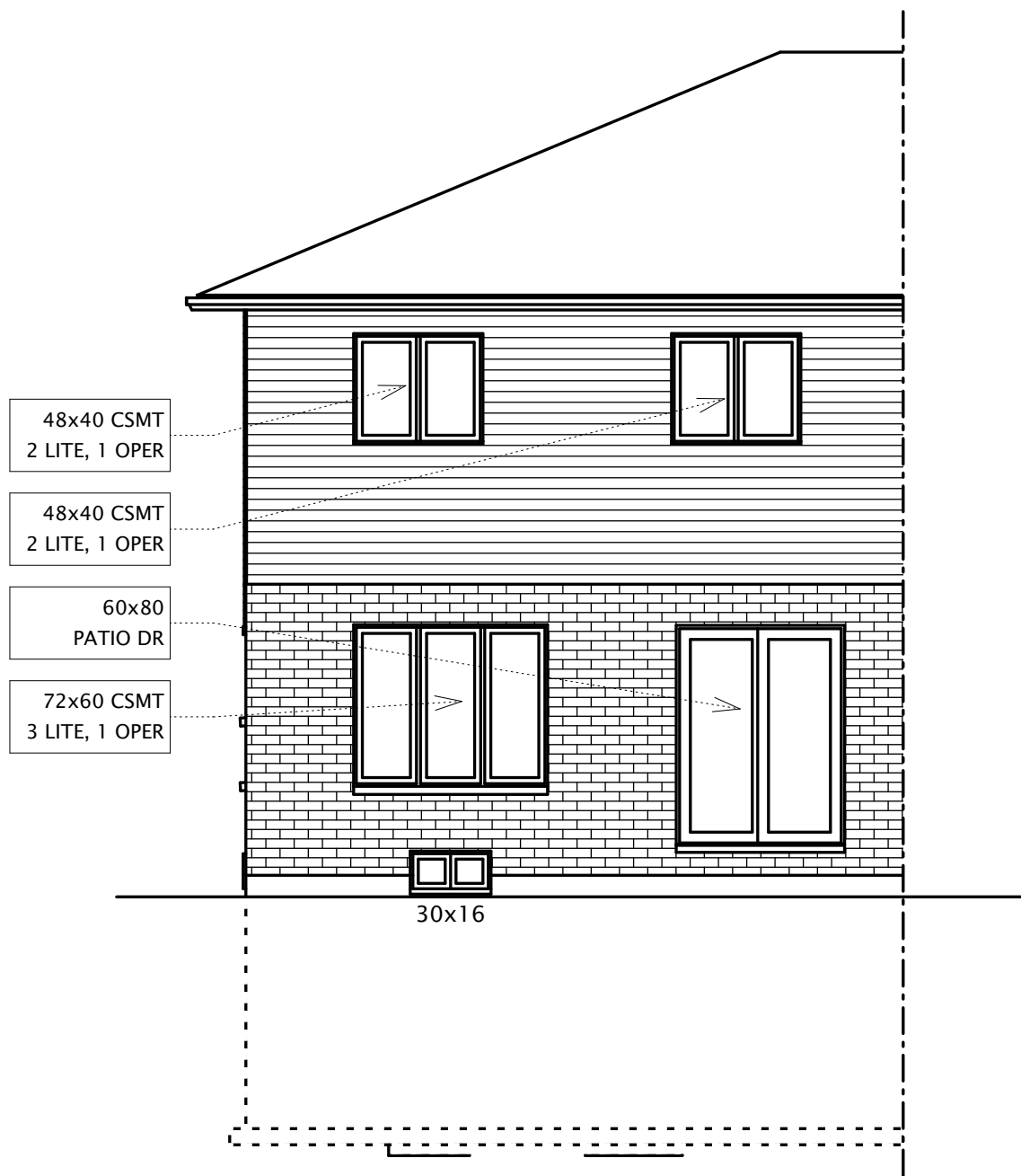
- 48x40 SLDR
- 48x40 SLDR
- 1"x6" TRIM
- 60x80  
PATIO DR
- 72x60 CSMT  
3 LITE, 1 OPER

BACK ELEVATION 'B'

PROJECT NAME: <b>LENNON</b>		PROJECT ID:	DATE: March 2, 2021	SCALE: 3/16" = 1'0"	DRAWN BY: TL
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. <u>26105</u> . BCIN: <b>22084</b> DSGNR. SIG: _____		PAGE: <b>1B OF 10</b>
PLAN NO: <b>00M-000</b>		 <b>MOUNTAINVIEW HOMES</b> <small>3350 MERRITTVILLE HWY #9, THOROLD, ONT. PHONE: (905) 688-3100 FAX: (905) 688-5524</small>			

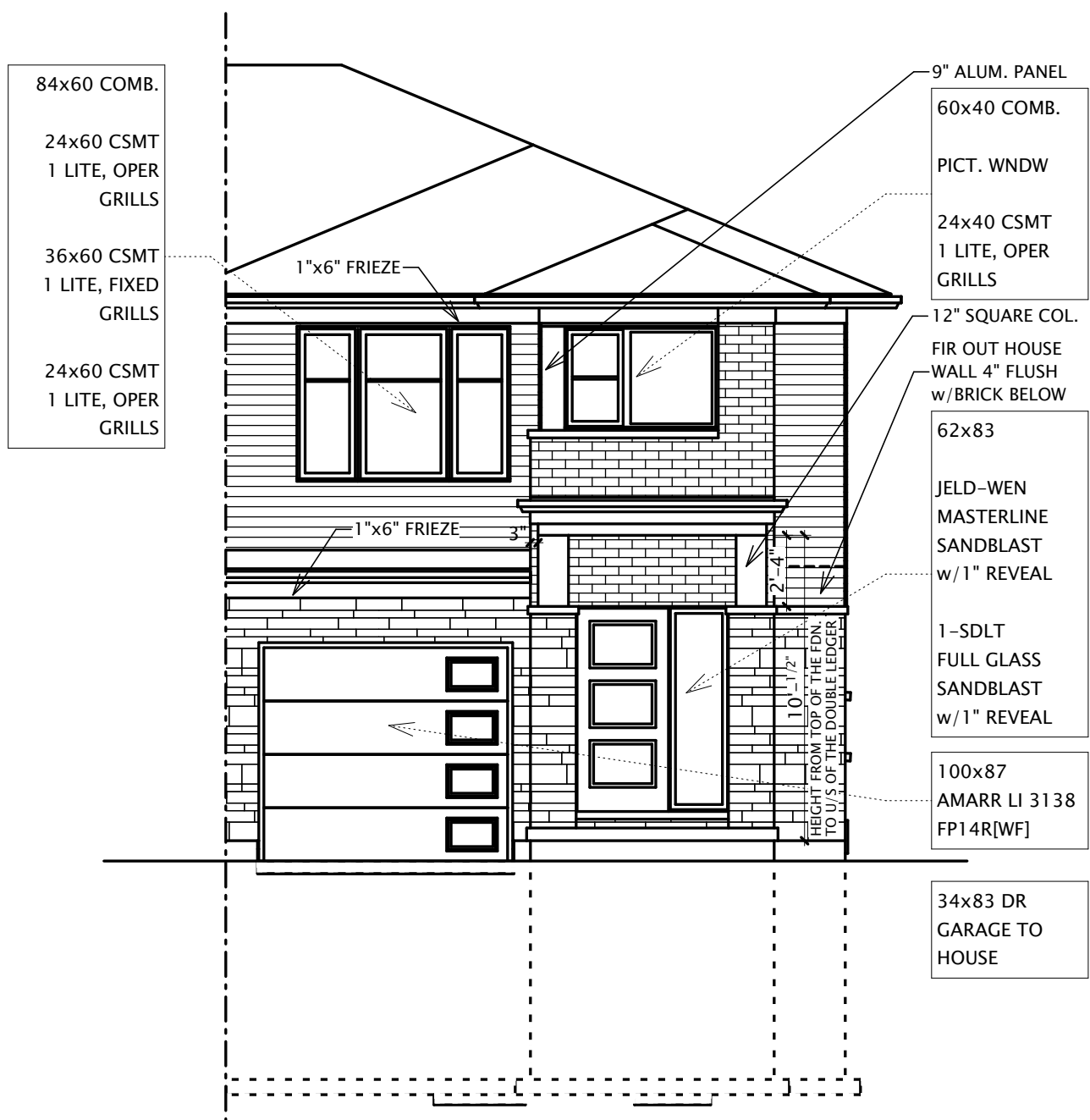


FRONT ELEVATION 'M1'

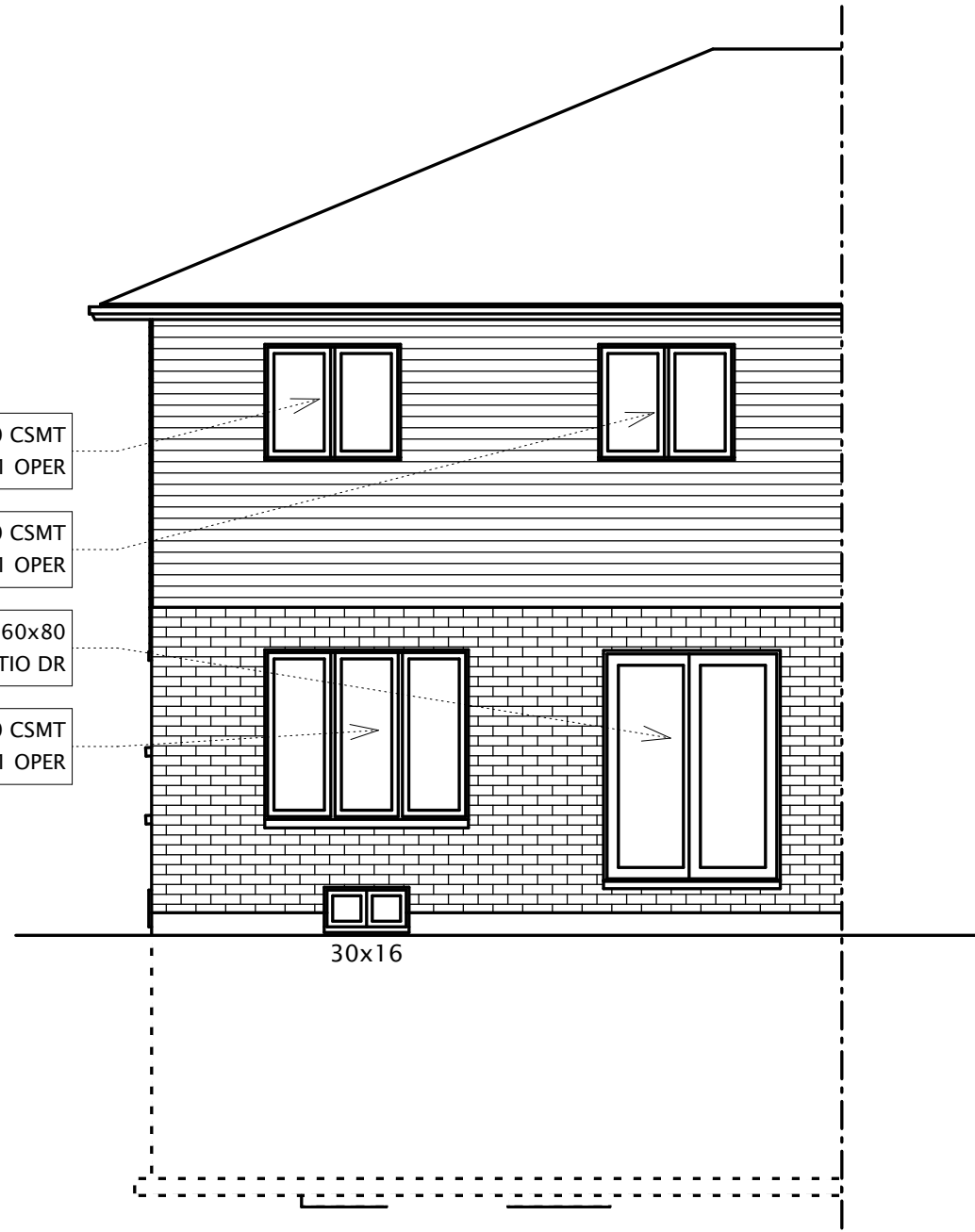


BACK ELEVATION 'M1'

PROJECT NAME: <b>LENNON</b>		PROJECT ID:	DATE: March 2, 2021	SCALE: 3/16" = 1'0"	DRAWN BY: TL
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		 <b>MOUNTAINVIEW HOMES</b> <small>3350 MERRITTVILLE HWY #9, THOROLD, ONT.          PHONE: (905) 688-3100 FAX: (905) 688-5524</small>		PAGE: 1M1 OF 10
PLAN NO: <b>00M-000</b>			BCIN: <b>22084</b>	DSG NR. SIG:	



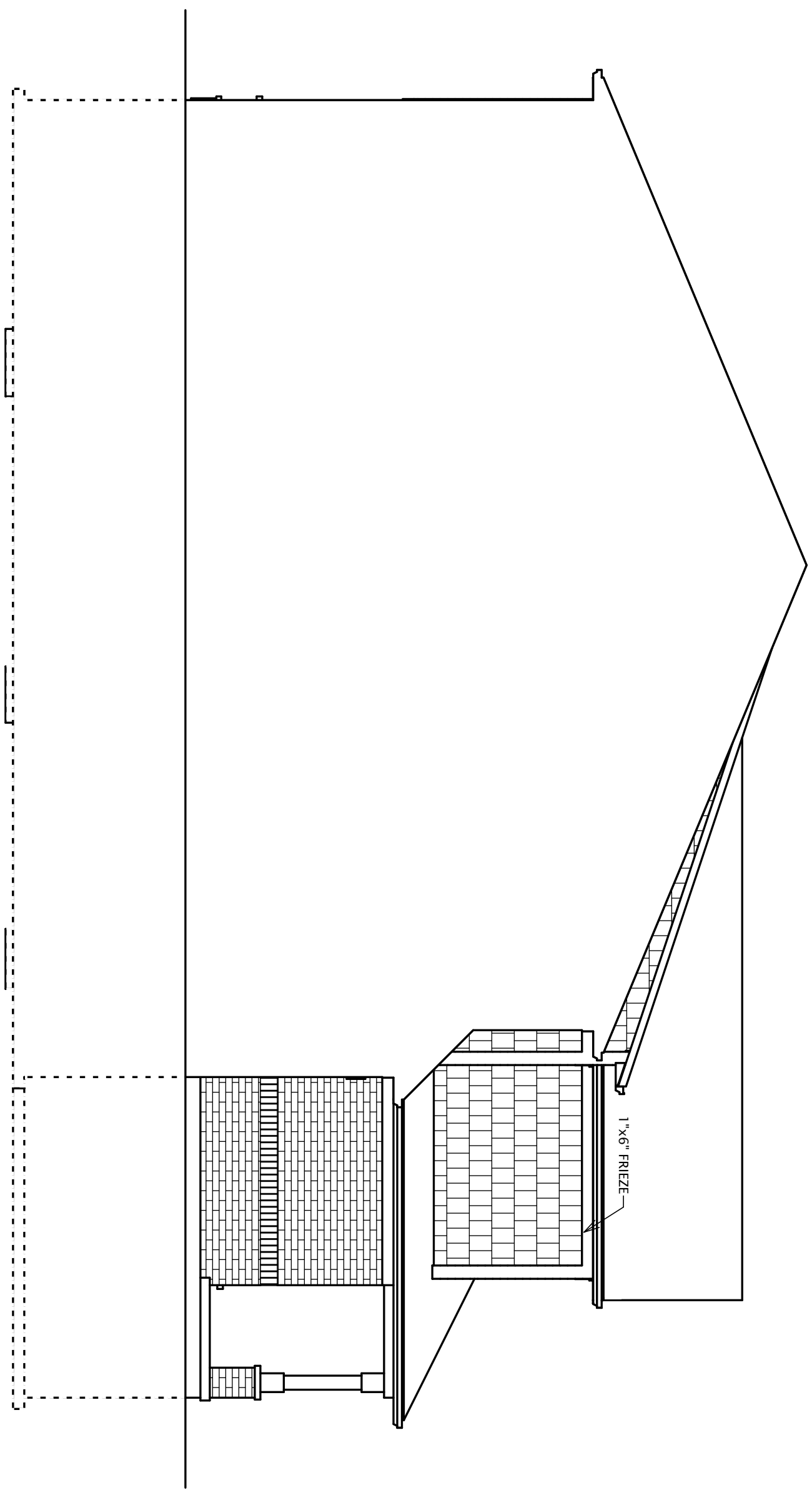
FRONT ELEVATION 'M2'



BACK ELEVATION 'M2'

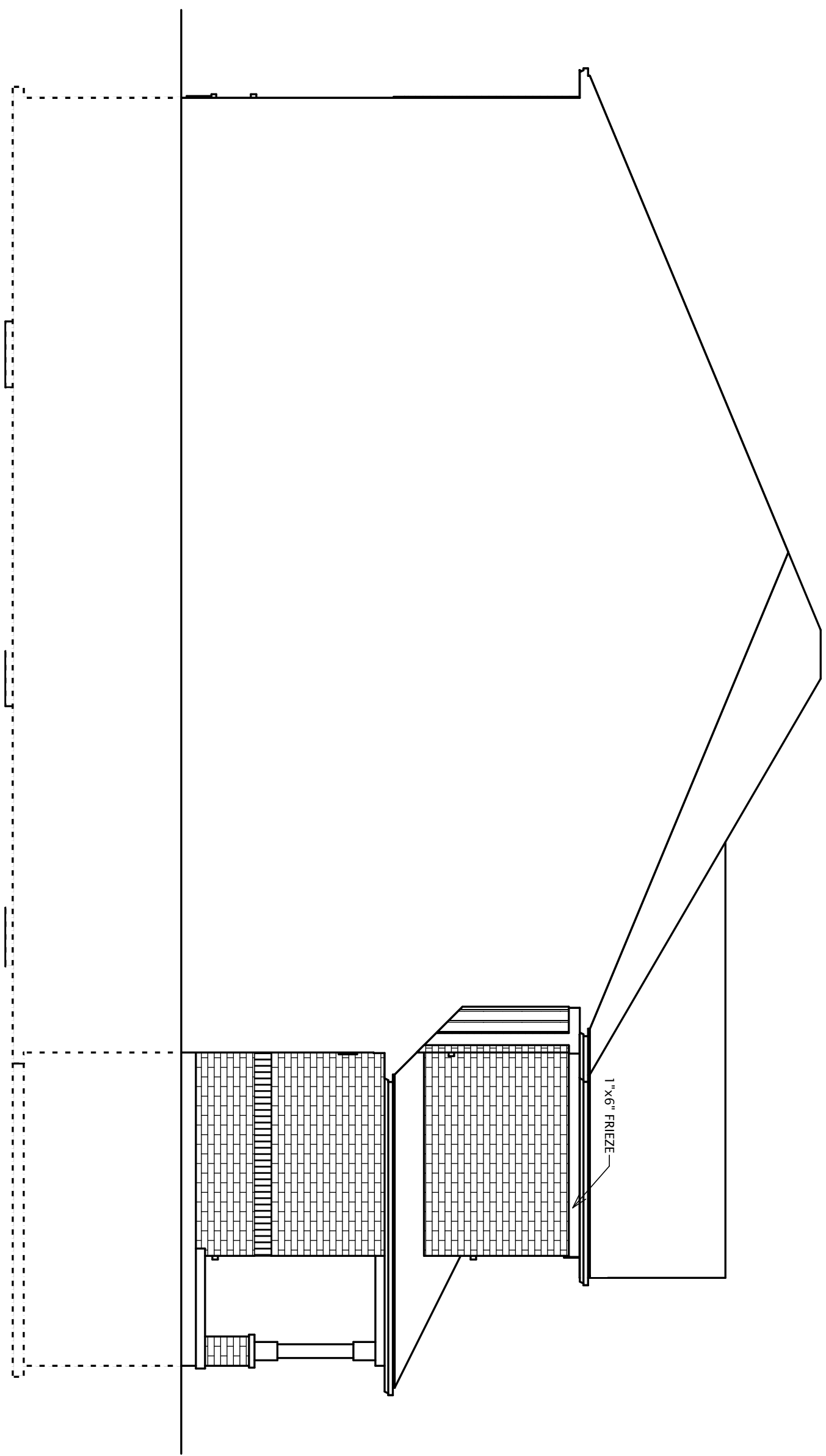
PROJECT NAME: <b>LENNON</b>		PROJECT ID:	DATE: March 2, 2021	SCALE: 3/16" = 1'0"	DRAWN BY: TL
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		 <b>MOUNTAINVIEW HOMES</b> <small>3350 MERRITTVILLE HWY #9, THOROLD, ONT.          PHONE: (905) 688-3100 FAX: (905) 688-5524</small>		PAGE: 1M2 OF 10
PLAN NO: <b>00M-000</b>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. <u>26105</u> . BCIN: <b>22084</b> DSGNR. SIG: _____			

LEFT ELEVATION 'A'



PROJECT NAME: <b>LENNON</b>		PROJECT ID:	DATE: <b>March 2, 2021</b>	SCALE: <b>3/16" = 1'0"</b>	DRAWN BY: <b>TL</b>
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>	 <b>MOUNTAINVIEW HOMES</b> 3350 MERRITTVILLE HWY #9, THOROLD, ONT. PHONE: (905) 688-3100 FAX: (905) 688-5524	TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. <u>26105</u> .		PAGE: <b>2A OF 10</b>
PLAN NO: <b>00M-000</b>			BCIN: <b>22084</b>	DSG NR. SIG: _____	

LEFT ELEVATION 'B'

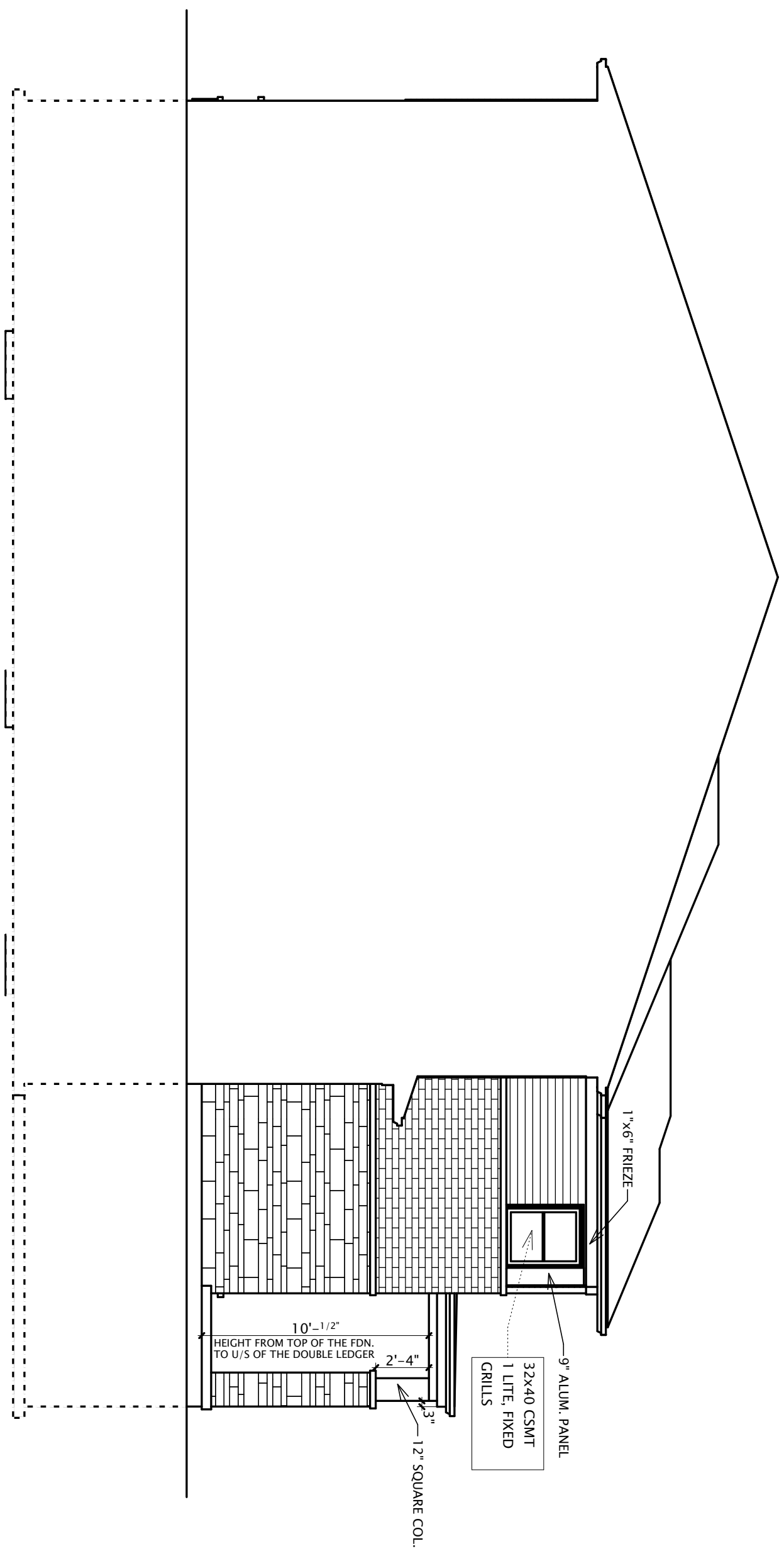


1' x 6" FRIEZE

PROJECT NAME: <b>LENNON</b>		PROJECT ID:	DATE: <b>March 2, 2021</b>	SCALE: <b>3/16" = 1'0"</b>	DRAWN BY: <b>TL</b>
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>	 <b>MOUNTAINVIEW HOMES</b> 3350 MERRITTVILLE HWY #9, THOROLD, ONT. PHONE: (905) 688-3100 FAX: (905) 688-5524	TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. <u>26105</u> .		PAGE: <b>2B OF 10</b>
PLAN NO: <b>00M-000</b>			BCIN: <b>22084</b>	DSG NR. SIG: _____	

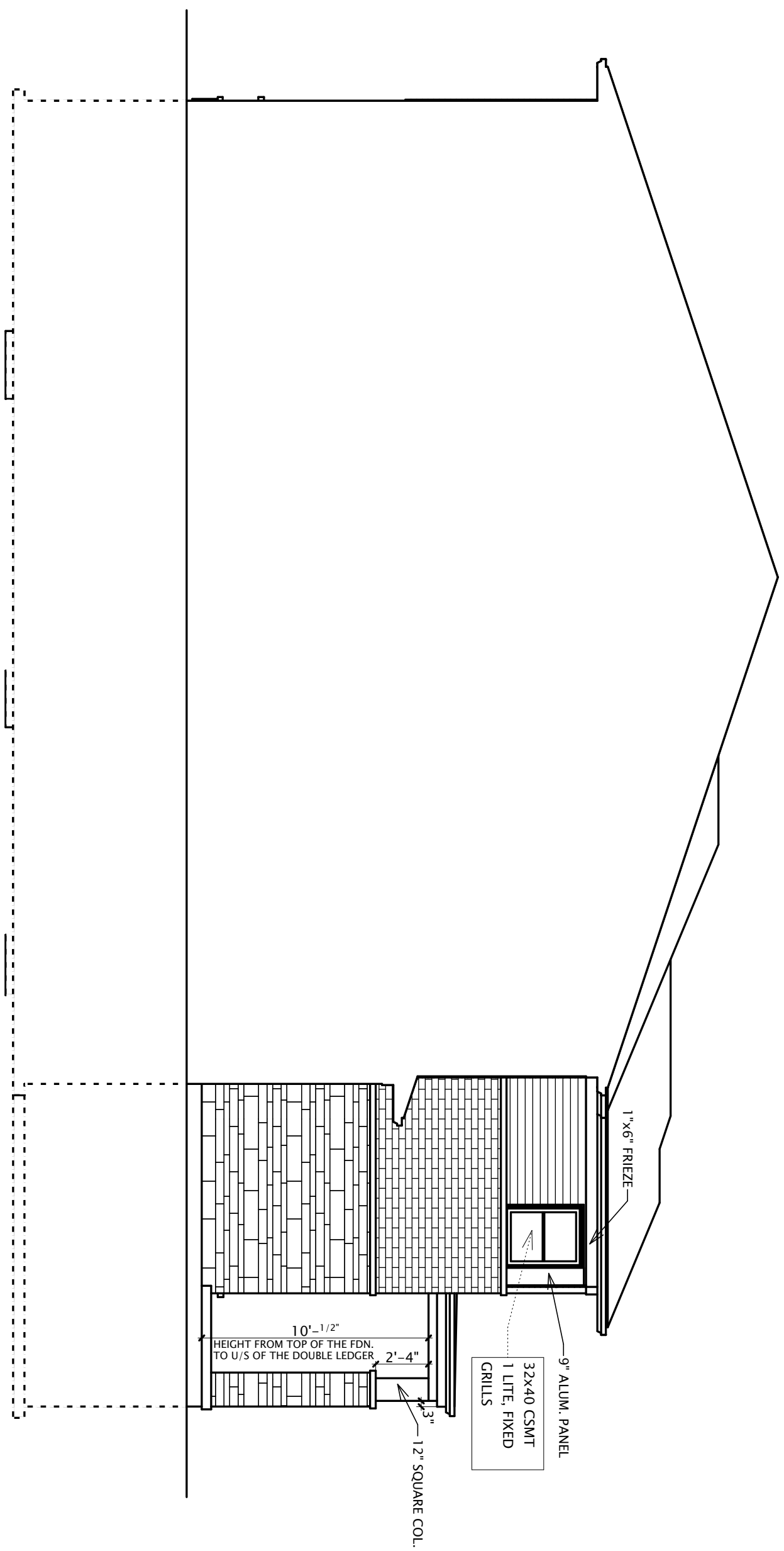


LEFT ELEVATION 'M1'



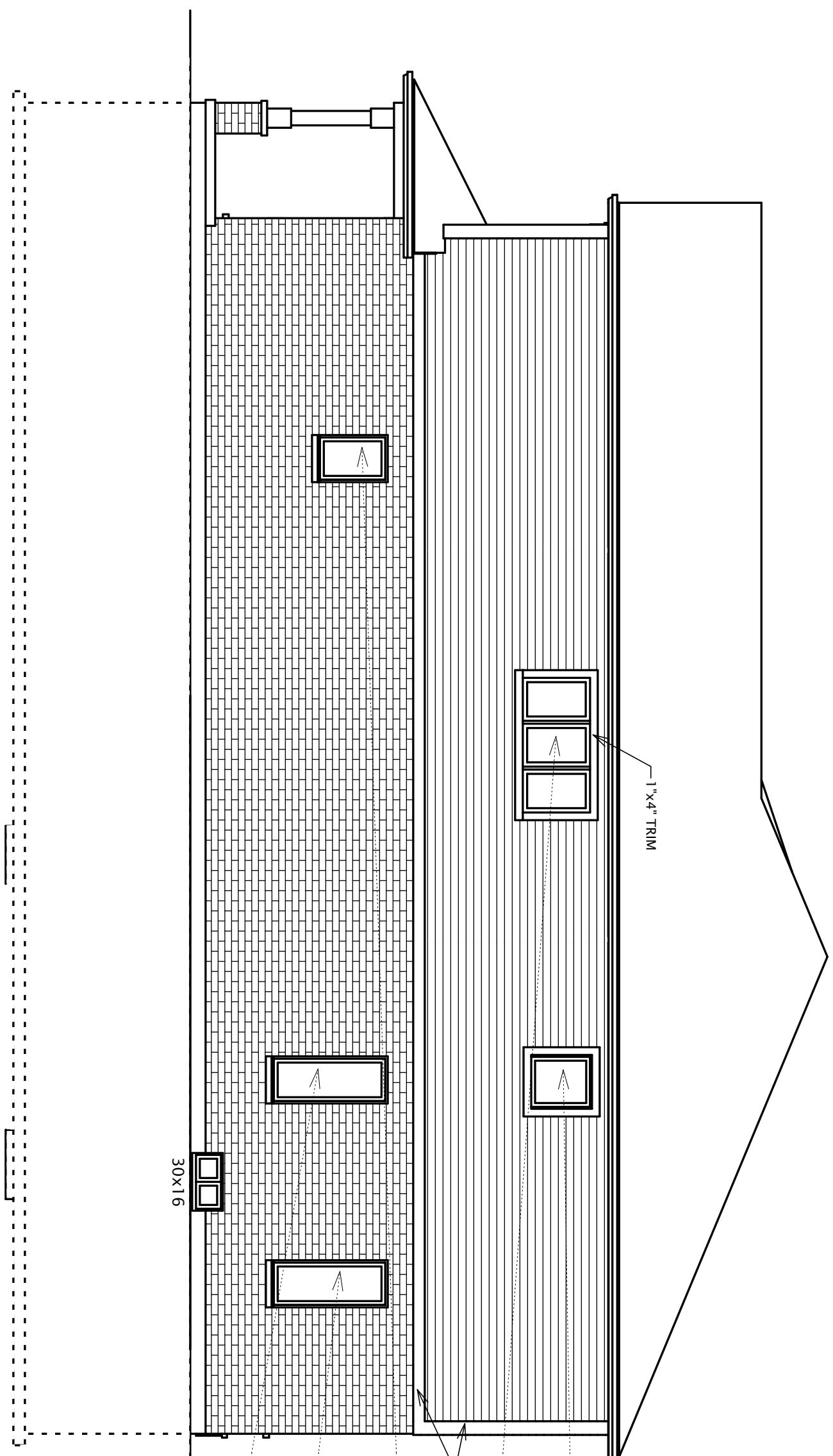
PROJECT NAME: <b>LENNON</b>		PROJECT ID:	DATE: <b>March 2, 2021</b>	SCALE: <b>3/16" = 1'0"</b>	DRAWN BY: <b>TL</b>
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. <u>26105</u> .		PAGE: <b>2M1 OF 10</b>
PLAN NO: <b>00M-000</b>		 <b>MOUNTAINVIEW HOMES</b> 3350 MERRITTVILLE HWY #9, THOROLD, ONT. PHONE: (905) 688-3100 FAX: (905) 688-5524	BCIN: <b>22084</b>	DSG NR. SIG: _____	

LEFT ELEVATION 'M2'



PROJECT NAME: <b>LENNON</b>		PROJECT ID:	DATE: <b>March 2, 2021</b>	SCALE: <b>3/16" = 1'0"</b>	DRAWN BY: <b>TL</b>
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. <u>26105</u> .		PAGE: <b>2M2 OF 10</b>
PLAN NO: <b>00M-000</b>		 <b>MOUNTAINVIEW HOMES</b> <small>3350 MERRITTVILLE HWY #9, THOROLD, ONT. PHONE: (905) 688-3100 FAX: (905) 688-5524</small>	BCIN: <b>22084</b>	DSG NR. SIG: _____	

RIGHT ELEVATION 'A'



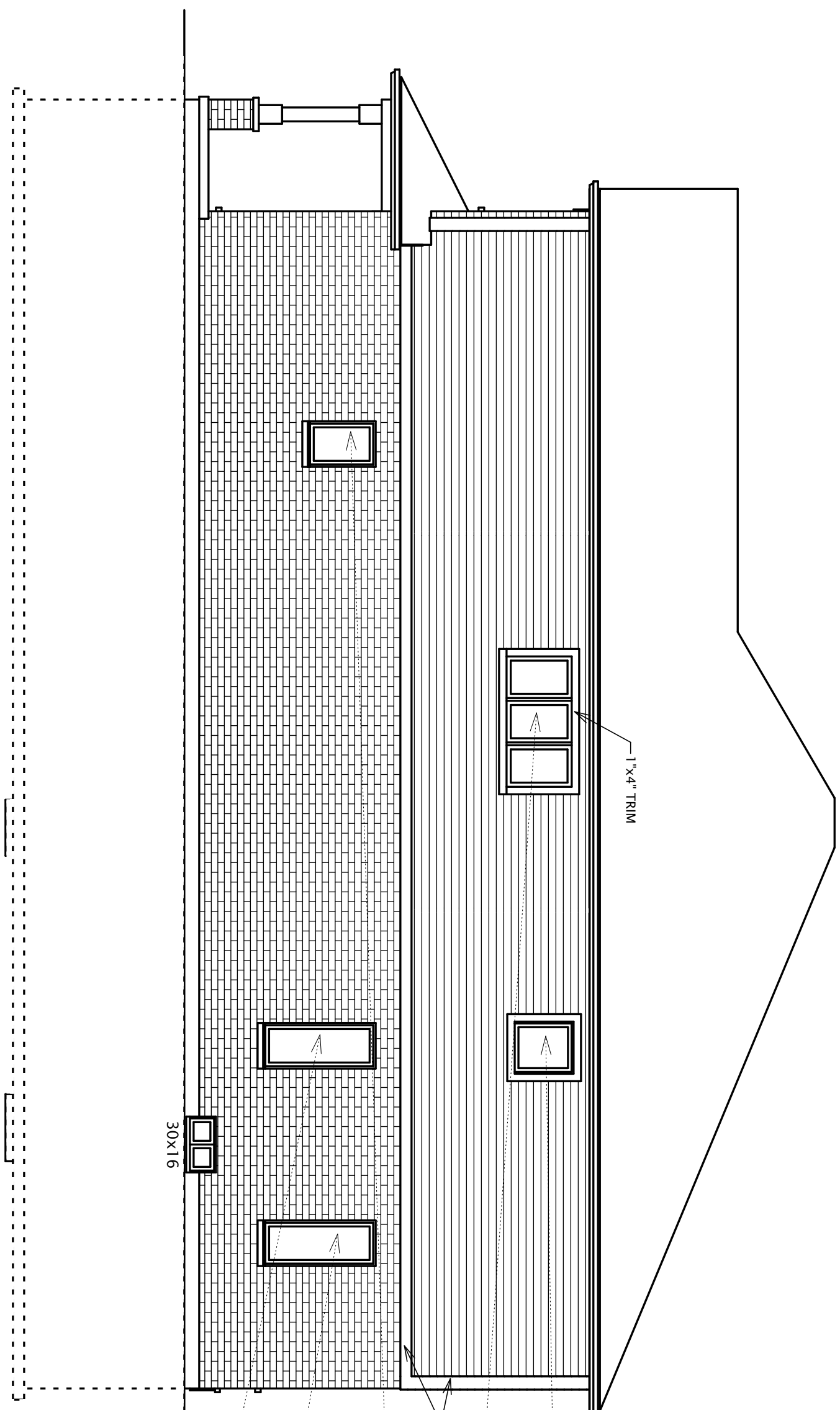
30X16

1"x4" TRIM

- 28X32 CSMT  
1 LITE, OPER
- 72X36 CSMT  
3 LITE, FIXED
- 1"x6" TRIM
- 24X36 CSMT  
1 LITE, OPER  
OBSCURE
- 24X60 CSMT  
1 LITE, OPER
- 24X60 CSMT  
1 LITE, FIXED

PROJECT NAME: <b>LENNON</b>		PROJECT ID:	DATE: March 2, 2021	SCALE: 3/16" = 1'0"	DRAWN BY: TL
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. <u>26105</u> .		PAGE: <b>3A OF 10</b>
PLAN NO: <b>00M-000</b>		 <b>MOUNTAINVIEW HOMES</b> 3350 MERRITTVILLE HWY #9, THOROLD, ONT. PHONE: (905) 688-3100 FAX: (905) 688-5524		BCIN: <b>22084</b>	DSG NR. SIG: _____

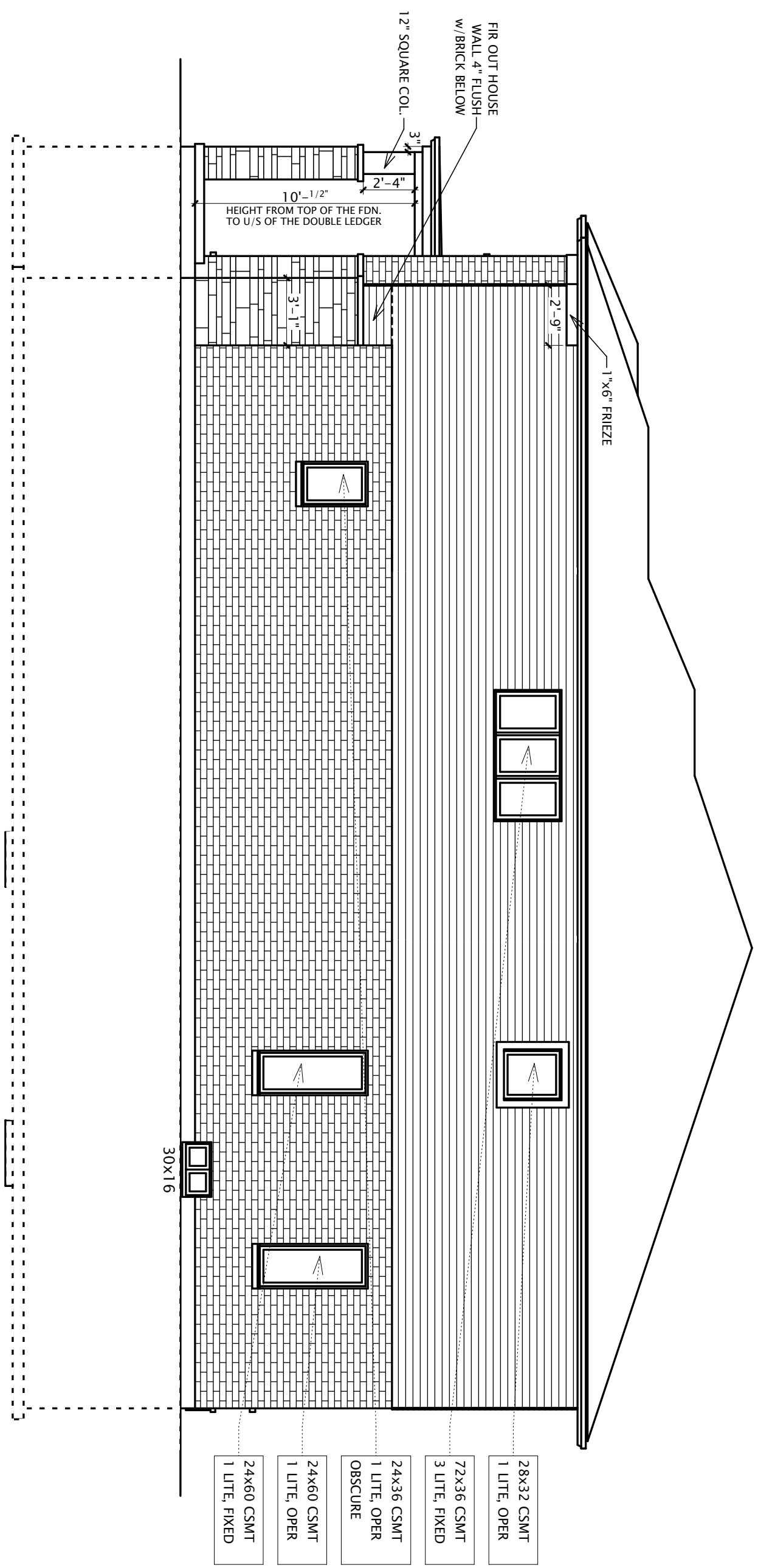
RIGHT ELEVATION 'B'



- 28X32 CSMT  
1 LITE, OPER
- 72X36 CSMT  
3 LITE, FIXED
- 1"X6" TRIM
- 24X36 CSMT  
1 LITE, OPER  
OBSCURE
- 24X60 CSMT  
1 LITE, OPER
- 24X60 CSMT  
1 LITE, FIXED
- 30X16

PROJECT NAME: <b>LENNON</b>		PROJECT ID:	DATE: <b>March 2, 2021</b>	SCALE: <b>3/16" = 1'0"</b>	DRAWN BY: <b>TL</b>
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. <u>26105</u> .		PAGE: <b>3B OF 10</b>
PLAN NO: <b>00M-000</b>		 <b>MOUNTAINVIEW HOMES</b> 3350 MERRITTVILLE HWY #9, THOROLD, ONT. PHONE: (905) 688-3100 FAX: (905) 688-5524		BCIN: <b>22084</b>	DSG NR. SIG: _____

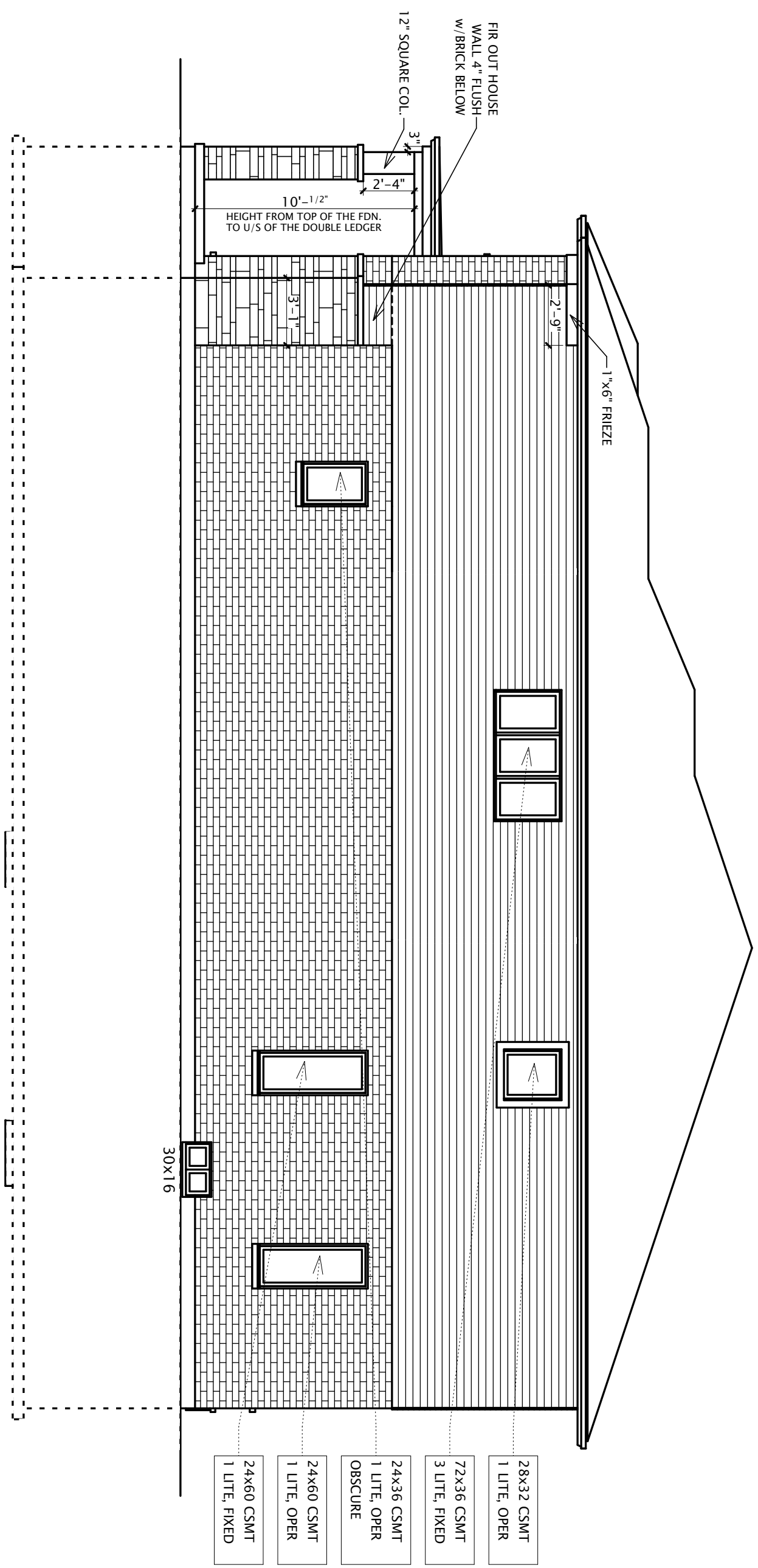
RIGHT ELEVATION 'M1'



- 28x32 CSMT  
1 LITE, OPER
- 72x36 CSMT  
3 LITE, FIXED
- 24x36 CSMT  
1 LITE, OPER  
OBSCURE
- 24x60 CSMT  
1 LITE, OPER
- 24x60 CSMT  
1 LITE, FIXED

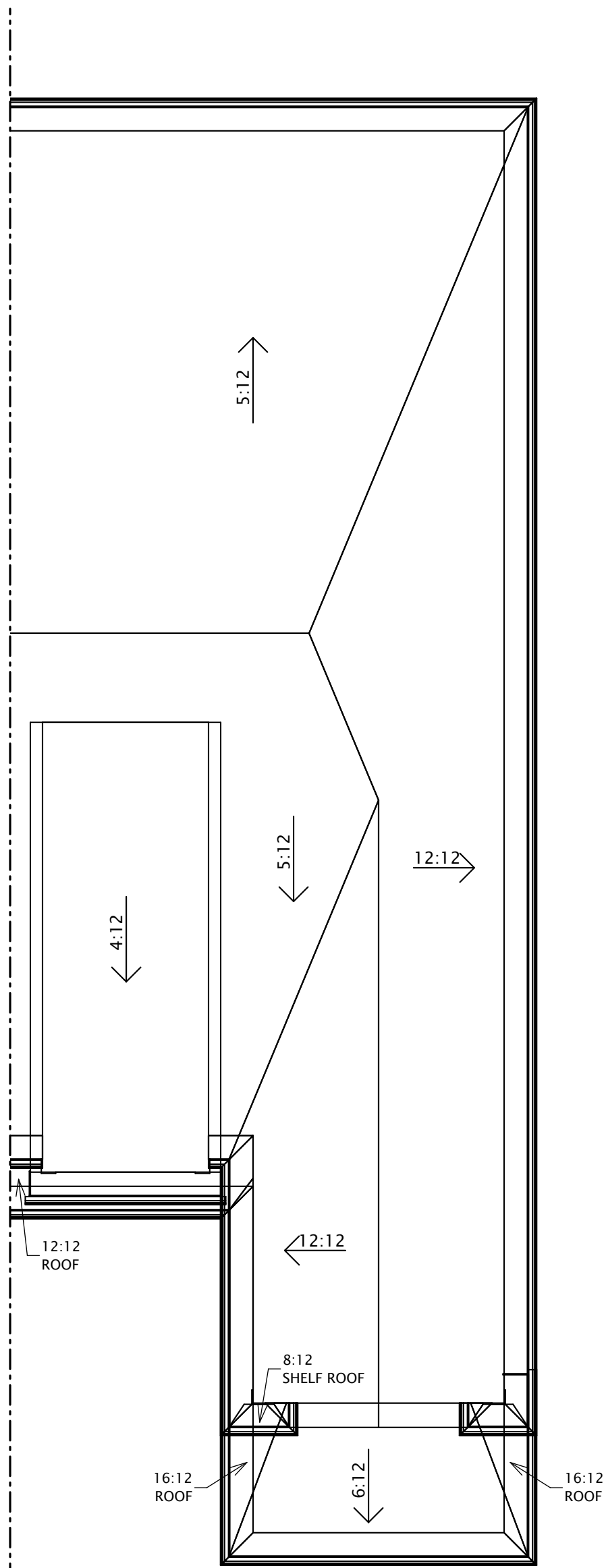
PROJECT NAME: <b>LENNON</b>		PROJECT ID:	DATE: March 2, 2021	SCALE: 3/16" = 1'0"	DRAWN BY: TL
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. <u>26105</u> .		PAGE: 3M1 OF 10
PLAN NO: <b>00M-000</b>		 <b>MOUNTAINVIEW HOMES</b> 3350 MERRITTVILLE HWY #9, THOROLD, ONT. PHONE: (905) 688-3100 FAX: (905) 688-5524		BCIN: <b>22084</b>	DSG NR. SIG:

RIGHT ELEVATION 'M2'




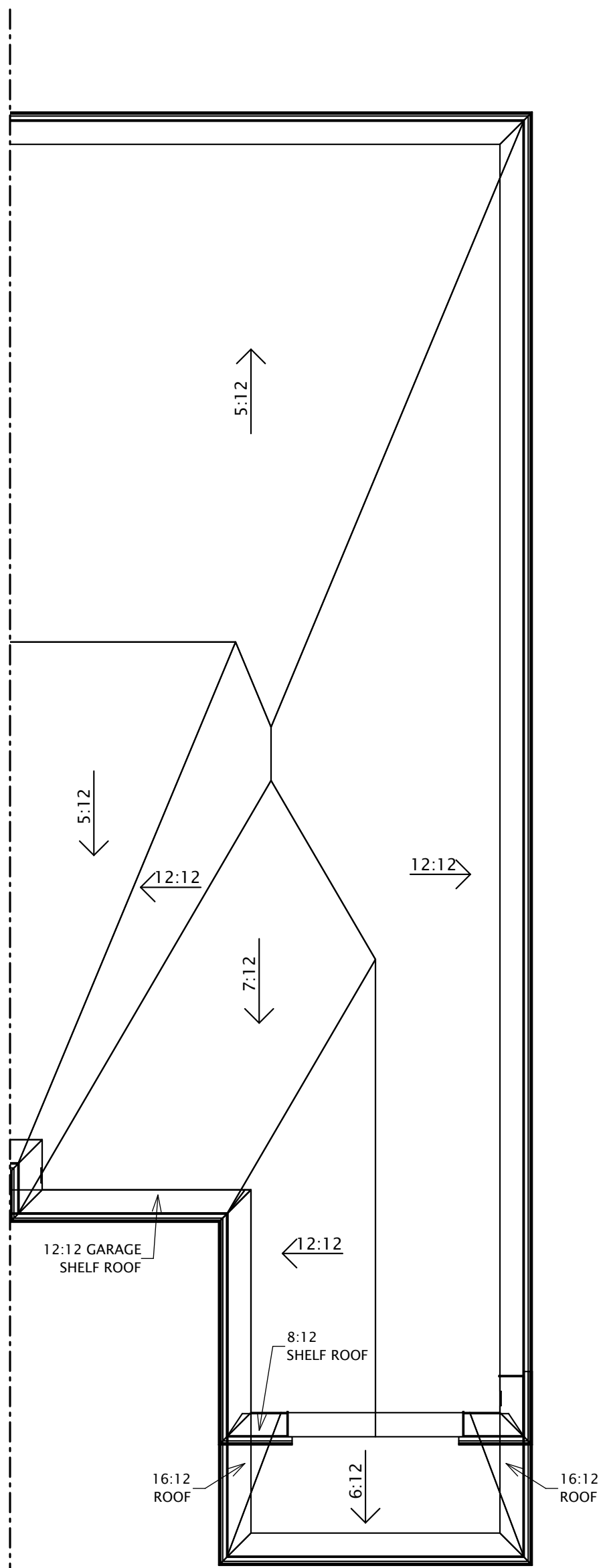
- 28x32 CSMT  
1 LITE, OPER
- 72x36 CSMT  
3 LITE, FIXED
- 24x36 CSMT  
1 LITE, OPER  
OBSCURE
- 24x60 CSMT  
1 LITE, OPER
- 24x60 CSMT  
1 LITE, FIXED

PROJECT NAME: <b>LENNON</b>		PROJECT ID:	DATE: March 2, 2021	SCALE: 3/16" = 1'0"	DRAWN BY: TL
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. <u>26105</u> .		PAGE: 3M2 OF 10
PLAN NO: <b>00M-000</b>		 <b>MOUNTAINVIEW HOMES</b> 3350 MERRITTVILLE HWY #9, THOROLD, ONT. PHONE: (905) 688-3100 FAX: (905) 688-5524	BCIN: <b>22084</b>	DSG NR. SIG:	



ROOF PLAN 'A'

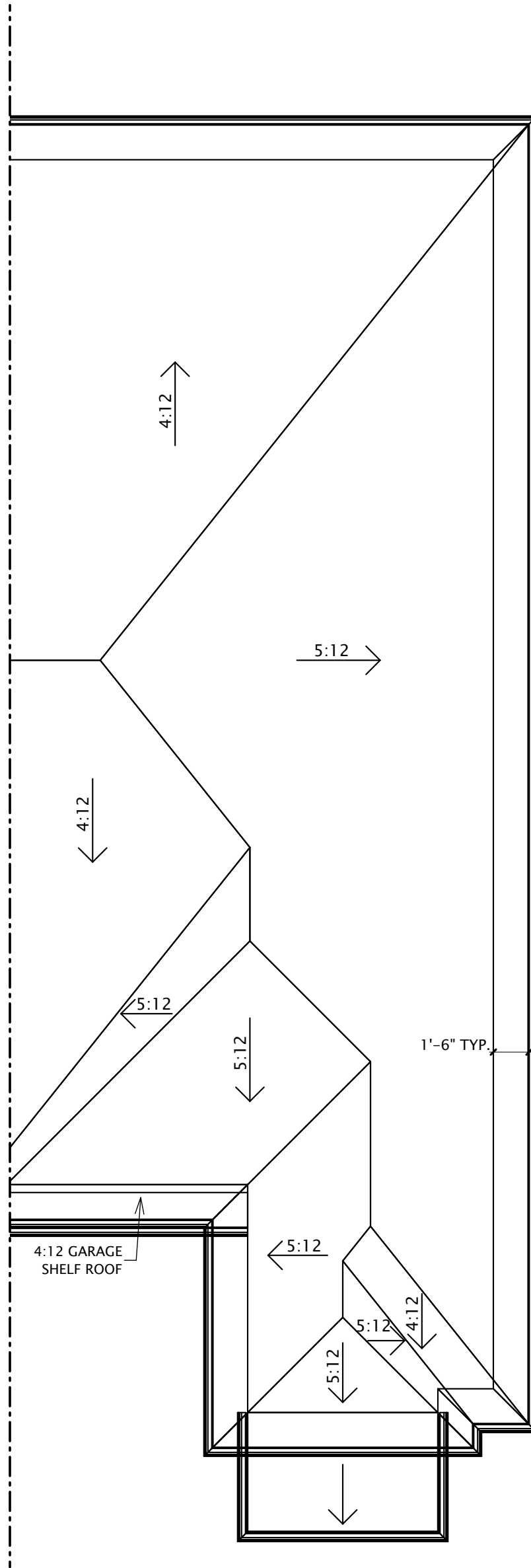
PROJECT NAME: <b>LENNON</b>		PROJECT ID:	DATE: March 2, 2021	SCALE: 3/16" = 1'0"	DRAWN BY: TL
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. <u>26105</u> .		PAGE: 4A OF 10
PLAN NO: <b>00M-000</b>		 <b>MOUNTAINVIEW</b> HOMES <small>3350 MERRITTVILLE HWY #9, THOROLD, ONT.          PHONE: (905) 688-3100 FAX: (905) 688-5524</small>	BCIN: <b>22084</b>	DSG NR. SIG: _____	



ROOF PLAN 'B'

PROJECT NAME: <b>LENNON</b>		PROJECT ID:	DATE: March 2, 2021	SCALE: 3/16" = 1'0"	DRAWN BY: TL
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. <u>26105</u> .		PAGE: 4B OF 10
PLAN NO: <b>00M-000</b>		 <b>MOUNTAINVIEW</b> HOMES <small>3350 MERRITTVILLE HWY #9, THOROLD, ONT.          PHONE: (905) 688-3100 FAX: (905) 688-5524</small>	BCIN: <b>22084</b>	DSG NR. SIG:	

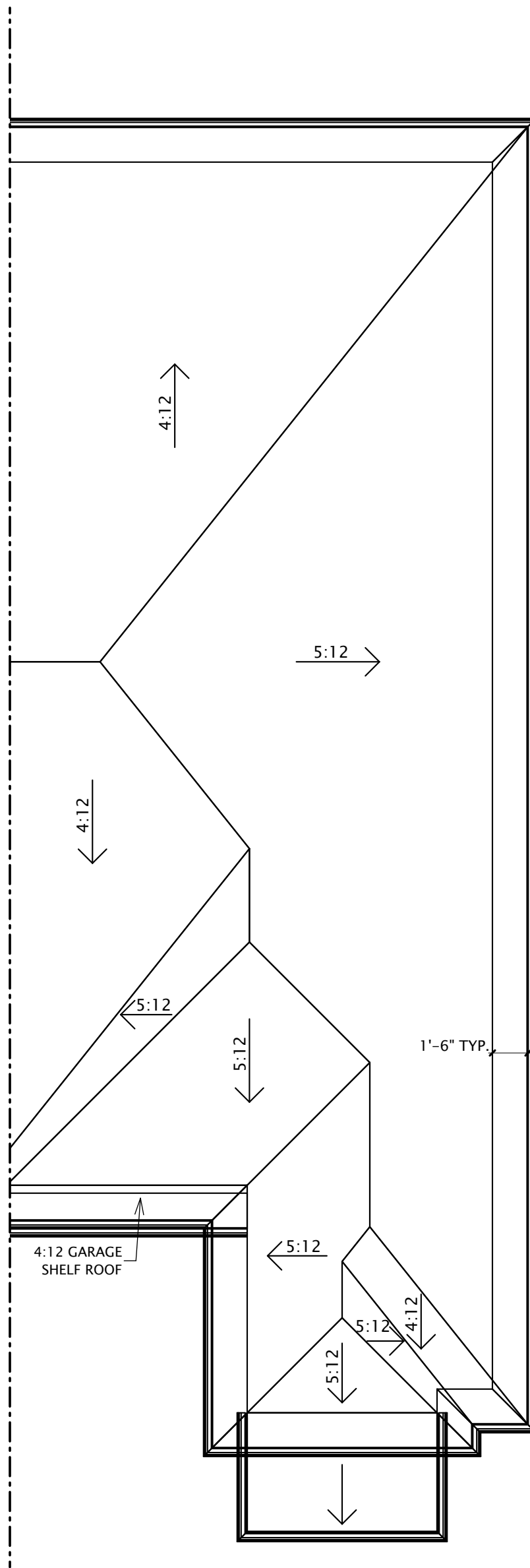





ROOF PLAN 'M1'

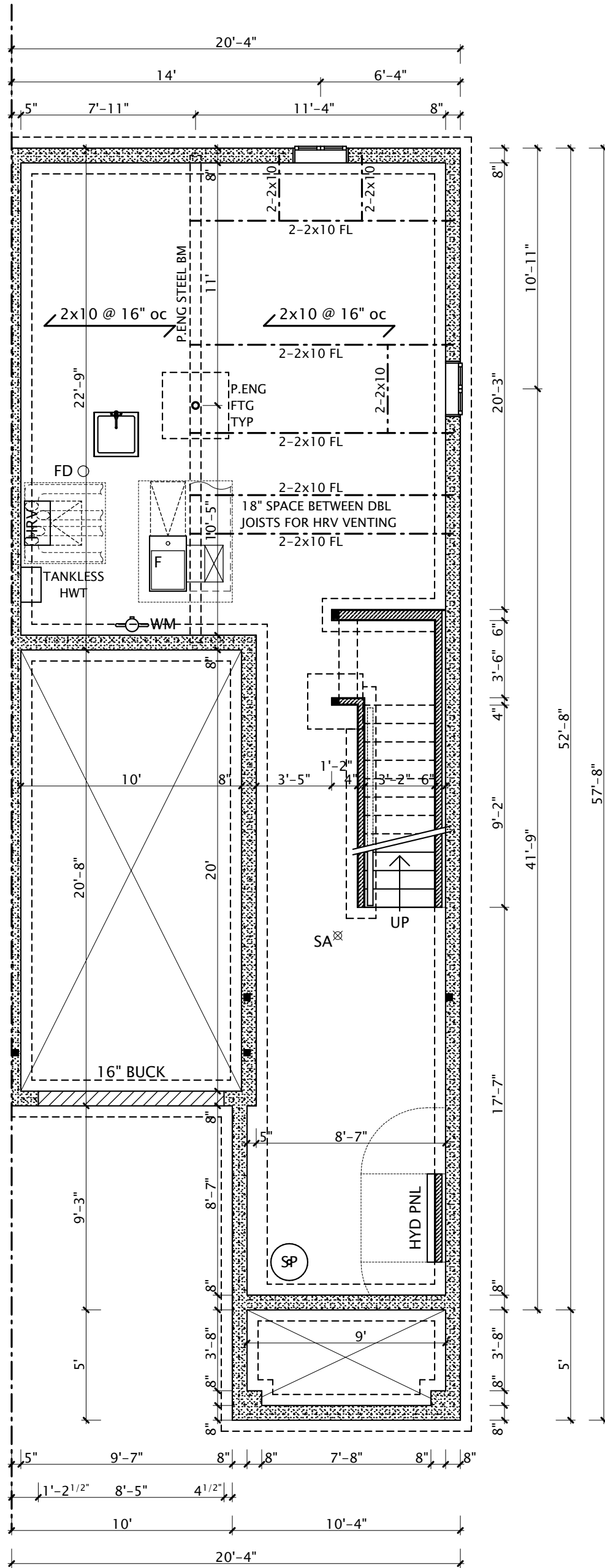
PROJECT NAME: <b>LENNON</b>		PROJECT ID:	DATE: March 2, 2021	SCALE: 3/16" = 1'0"	DRAWN BY: TL
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		 <b>MOUNTAINVIEW</b> <small>HOMES</small> <small>3350 MERRITTVILLE HWY #9, THOROLD, ONT.          PHONE: (905) 688-3100 FAX: (905) 688-5524</small>		PAGE:
PLAN NO: <b>00M-000</b>			BCIN: <b>22084</b>	DSG NR. SIG:	<b>4M1 OF 10</b>

TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. 26105



ROOF PLAN 'M2'

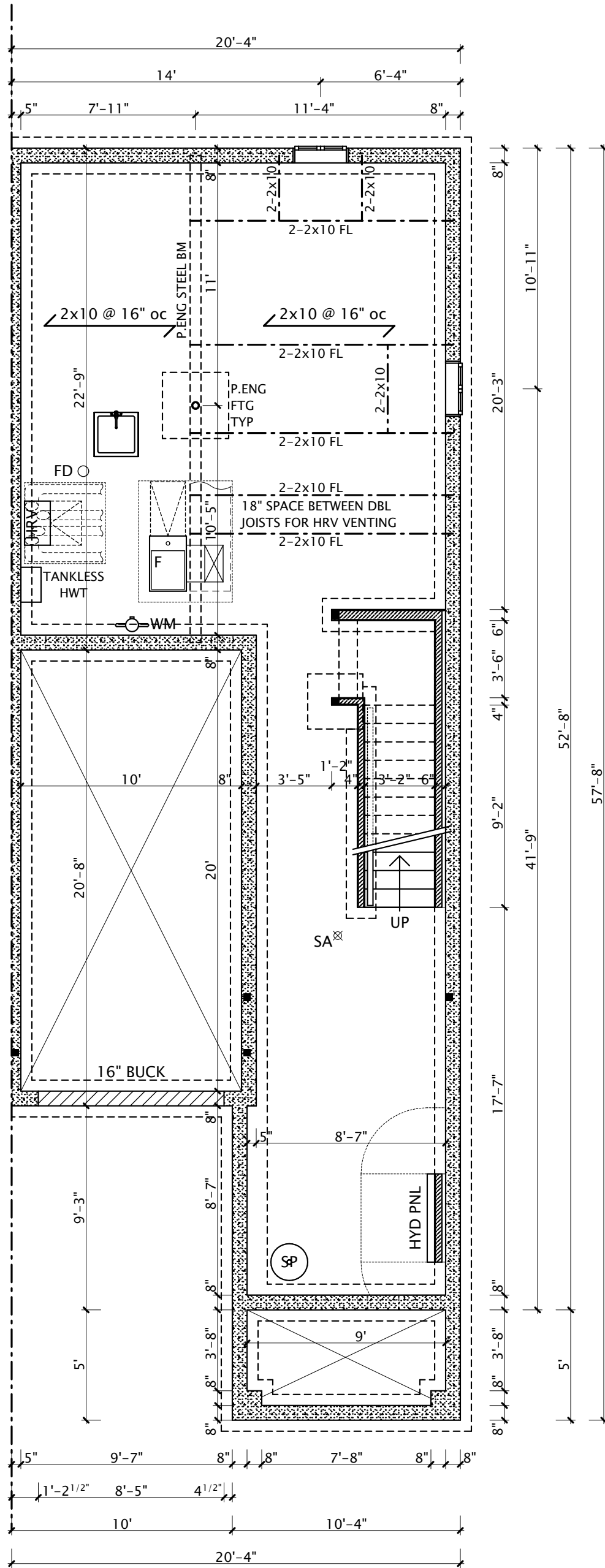
PROJECT NAME: <b>LENNON</b>		PROJECT ID:	DATE: March 2, 2021	SCALE: 3/16" = 1'0"	DRAWN BY: TL
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		 <b>MOUNTAINVIEW</b> <small>HOMES</small> 3350 MERRITTVILLE HWY #9, THOROLD, ONT. PHONE: (905) 688-3100 FAX: (905) 688-5524		PAGE: 4M2 OF 10
PLAN NO: <b>00M-000</b>		BCIN: <b>22084</b>	DSG NR. SIG:		



BASEMENT  
ELEVATION 'A'

NOTE: ALL FLOORS GLUED & SCREWED  
WITH 1x2 STRAPPING

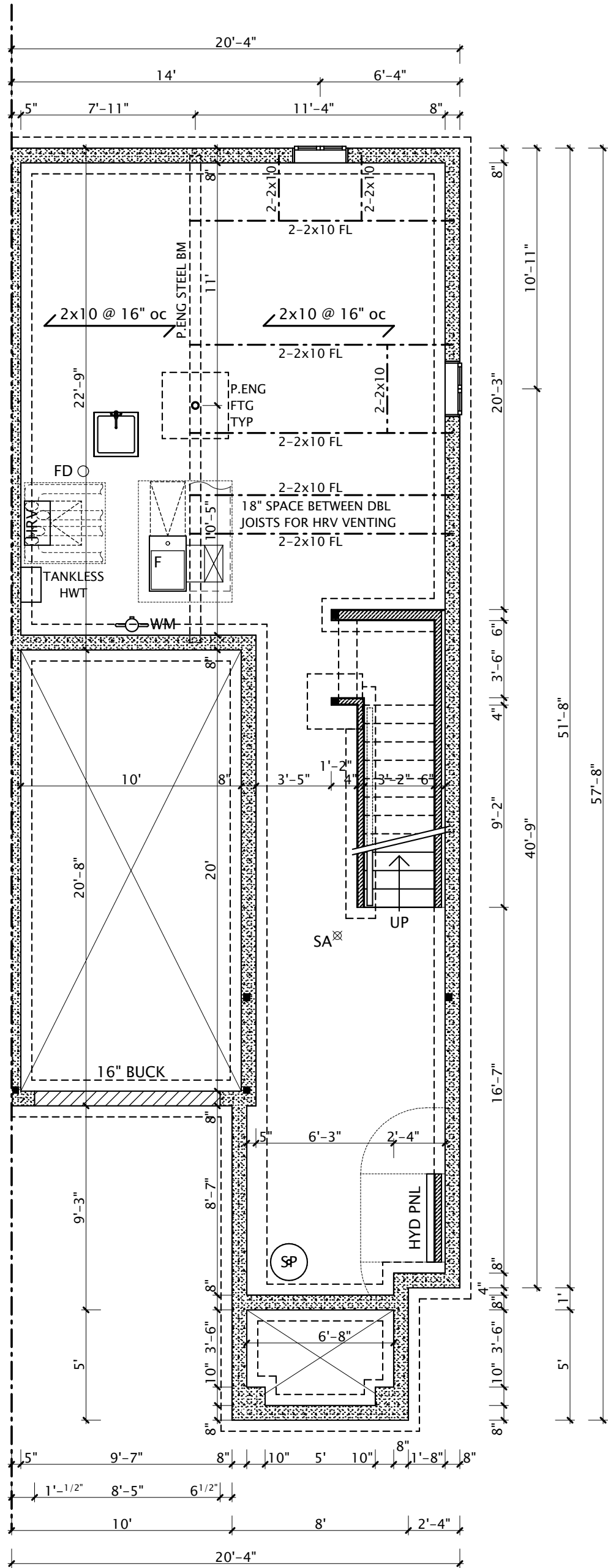
PROJECT NAME: <b>LENNON</b>		PROJECT ID:	DATE: March 2, 2021	SCALE: 3/16" = 1'0"	DRAWN BY: TL
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. <u>26105</u> .		PAGE: <b>5A OF 10</b>
PLAN NO: <b>00M-000</b>		 <b>MOUNTAINVIEW HOMES</b> <small>3350 MERRITTVILLE HWY #9, THOROLD, ONT. PHONE: (905) 688-3100 FAX: (905) 688-5524</small>	BCIN: <b>22084</b>	DSG NR. SIG:	



BASEMENT  
ELEVATION 'B'

NOTE: ALL FLOORS GLUED & SCREWED  
WITH 1x2 STRAPPING

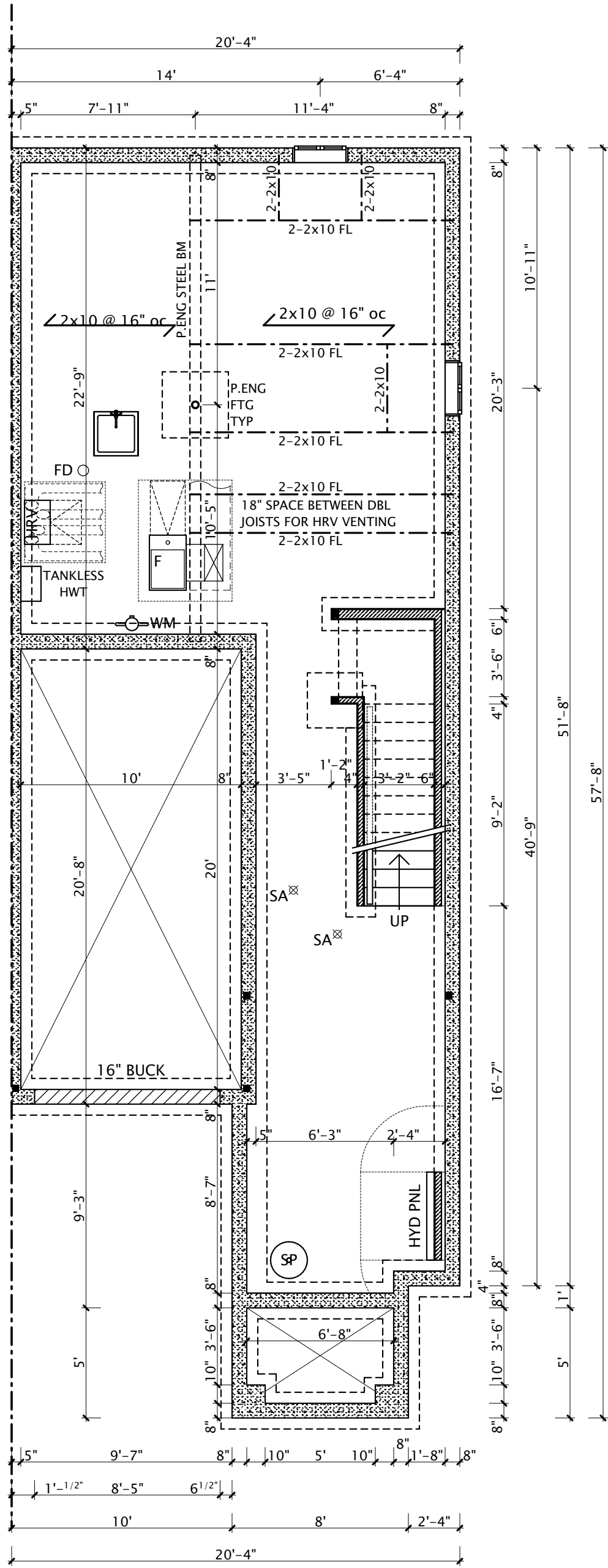
PROJECT NAME: <b>LENNON</b>		PROJECT ID:	DATE: March 2, 2021	SCALE: 3/16" = 1'0"	DRAWN BY: TL
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. <u>26105</u> .		PAGE: <b>5B OF 10</b>
PLAN NO: <b>00M-000</b>		 <b>MOUNTAINVIEW HOMES</b> <small>3350 MERRITTVILLE HWY #9, THOROLD, ONT. PHONE: (905) 688-3100 FAX: (905) 688-5524</small>	BCIN: <b>22084</b>	DSG NR. SIG:	



BASEMENT  
ELEVATION 'M1'

NOTE: ALL FLOORS GLUED & SCREWED  
WITH 1x2 STRAPPING

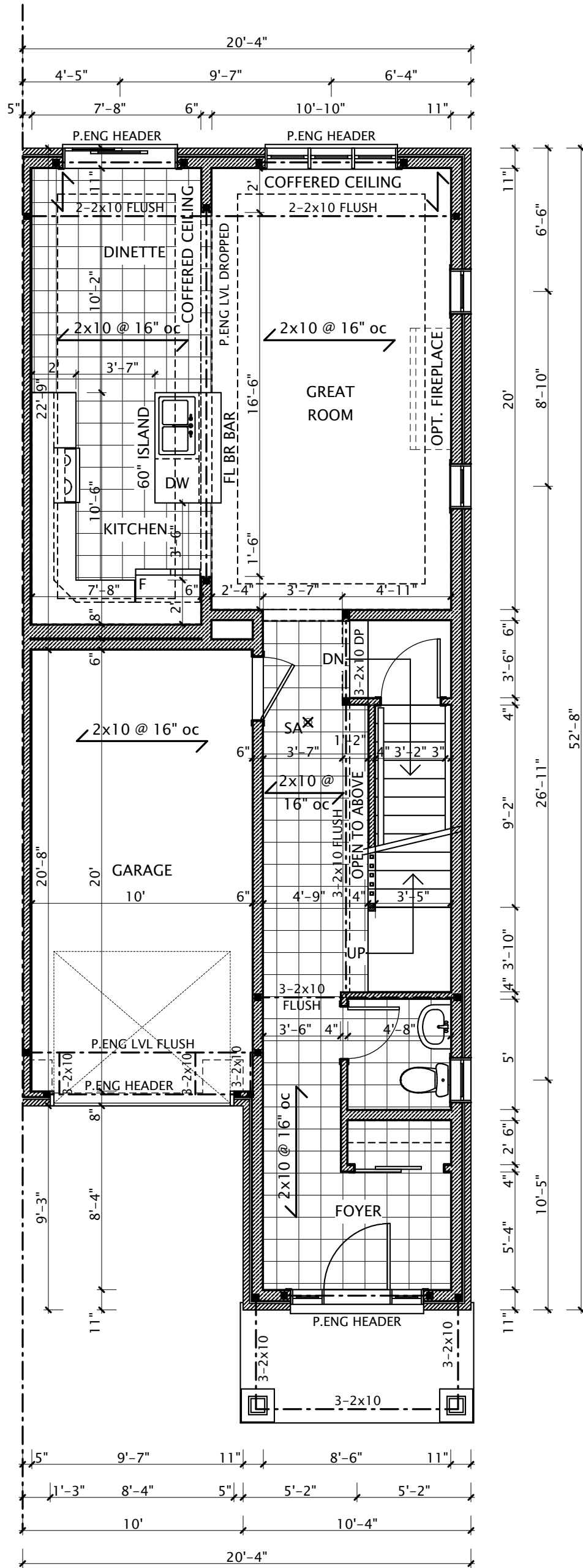
PROJECT NAME: <b>LENNON</b>		PROJECT ID:	DATE: March 2, 2021	SCALE: 3/16" = 1'0"	DRAWN BY: TL
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. 26105.		PAGE: 5M1 OF 10
PLAN NO: <b>00M-000</b>		 <b>MOUNTAINVIEW HOMES</b> <small>3350 MERRITTVILLE HWY #9, THOROLD, ONT. PHONE: (905) 688-3100 FAX: (905) 688-5524</small>	BCIN: <b>22084</b>	DSG NR. SIG:	



**BASEMENT  
ELEVATION 'M2'**

**NOTE: ALL FLOORS GLUED & SCREWED  
WITH 1x2 STRAPPING**

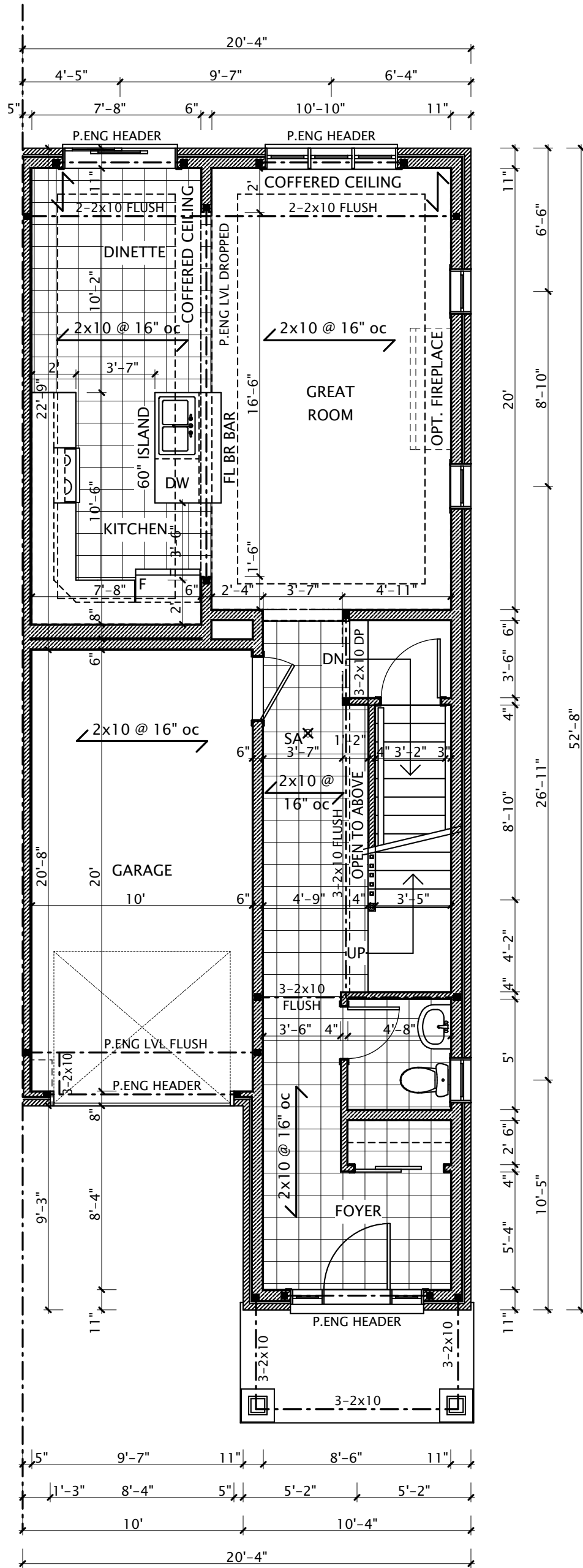
PROJECT NAME: <b>LENNON</b>		PROJECT ID:	DATE: <b>March 2, 2021</b>	SCALE: <b>3/16" = 1'0"</b>	DRAWN BY: <b>TL</b>
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. <u>26105</u> .		PAGE: <b>5M2 OF 10</b>
PLAN NO: <b>00M-000</b>		 <b>MOUNTAINVIEW HOMES</b> <small>3350 MERRITTVILLE HWY #9, THOROLD, ONT. PHONE: (905) 688-3100 FAX: (905) 688-5524</small>	BCIN: <b>22084</b>	DSG NR. SIG:	



MAIN FLOOR (8'0" CEILING)  
763 SQFT ELEV. 'A'

NOTE: ALL FLOORS GLUED & SCREWED WITH DRYWALL STRAPPING

PROJECT NAME: <b>LENNON</b>		PROJECT ID:	DATE: March 2, 2021	SCALE: 3/16" = 1'0"	DRAWN BY: TL
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. <u>26105</u> .		PAGE: <b>6A OF 10</b>
PLAN NO: <b>00M-000</b>	 <b>MOUNTAINVIEW HOMES</b> 3350 MERRITVILLE HWY #9, THOROLD, ONT. PHONE: (905) 688-3100 FAX: (905) 688-5524		BCIN: <b>22084</b>	DSG NR. SIG:	

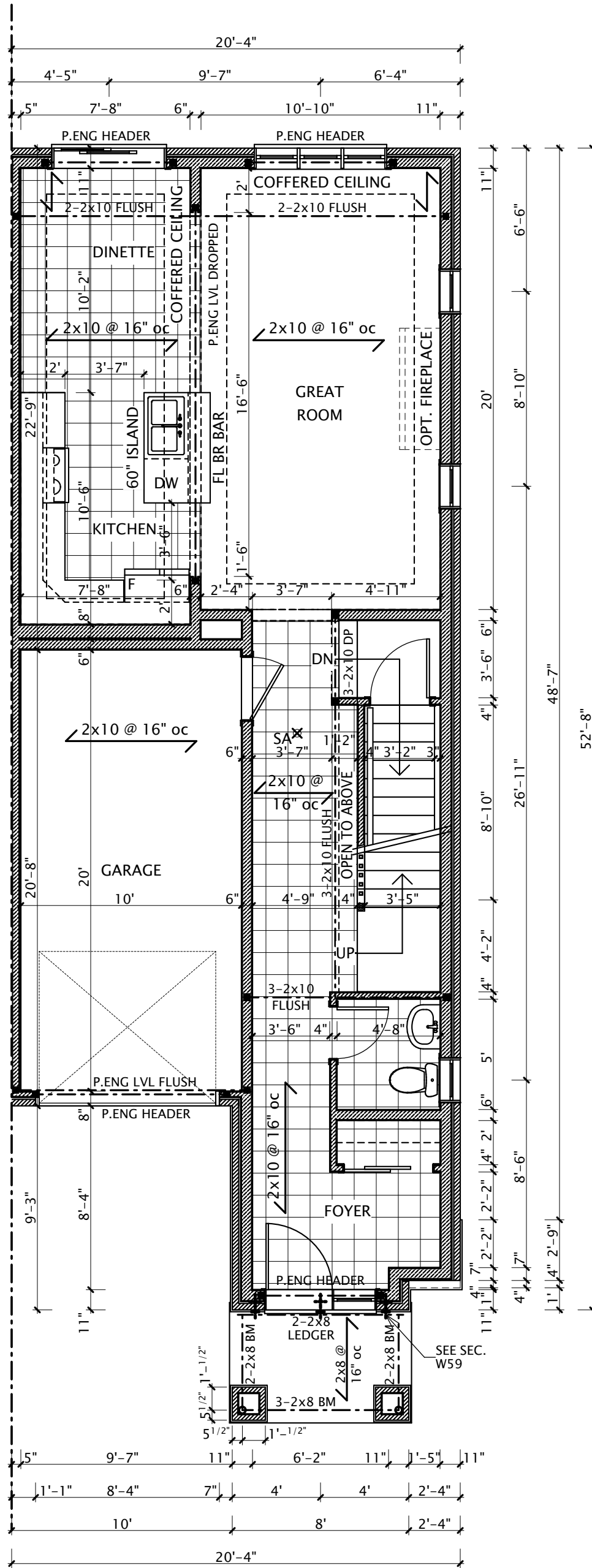


MAIN FLOOR (8'0" CEILING)  
763 SQFT ELEV. 'B'

NOTE: ALL FLOORS GLUED & SCREWED WITH DRYWALL STRAPPING

PROJECT NAME: <b>LENNON</b>		PROJECT ID:	DATE: March 2, 2021	SCALE: 3/16" = 1'0"	DRAWN BY: TL
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. <u>26105</u> .		PAGE: <b>6B OF 10</b>
PLAN NO: <b>00M-000</b>	 <b>MOUNTAINVIEW HOMES</b> <small>3350 MERRITVILLE HWY #9, THOROLD, ONT. PHONE: (905) 688-3100 FAX: (905) 688-5524</small>		BCIN: <b>22084</b>	DSG NR. SIG:	

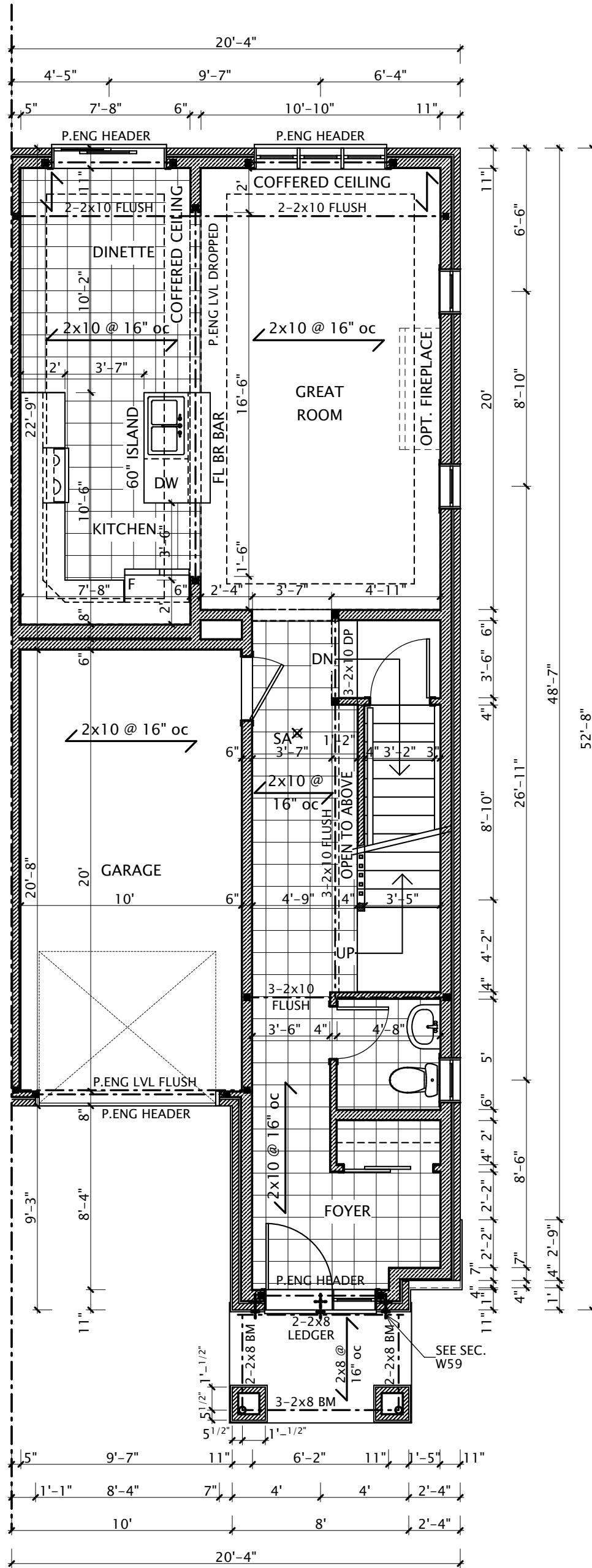




MAIN FLOOR (8'0" CEILING)  
760 SQFT ELEV. 'M1'

NOTE: ALL FLOORS GLUED & SCREWED WITH DRYWALL STRAPPING

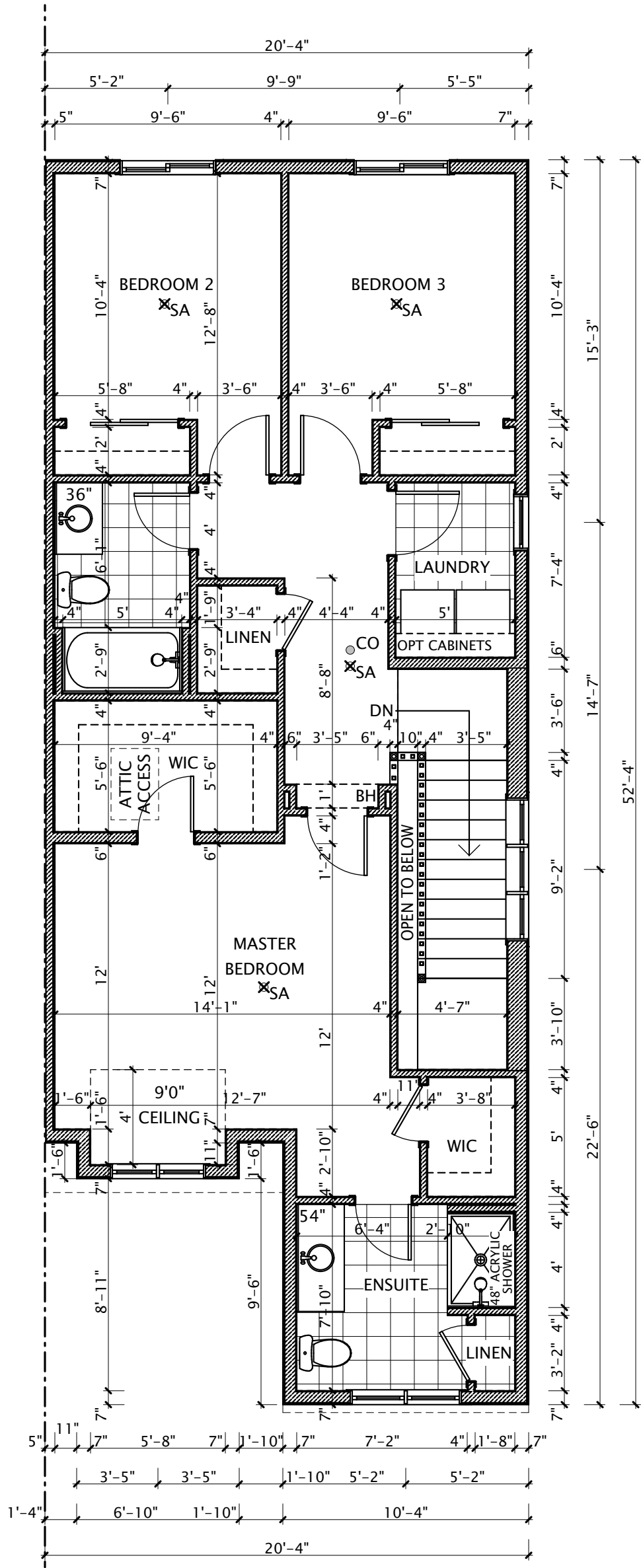
PROJECT NAME: <b>LENNON</b>		PROJECT ID:	DATE: March 2, 2021	SCALE: 3/16" = 1'0"	DRAWN BY: TL
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. 26105.		PAGE: 6M1 OF 10
PLAN NO: 00M-000	 <b>MOUNTAINVIEW HOMES</b> 3350 MERRITTVILLE HWY #9, THOROLD, ONT. PHONE: (905) 688-3100 FAX: (905) 688-5524		BCIN: 22084	DSG NR. SIG:	



MAIN FLOOR (8'0" CEILING)  
760 SQFT ELEV. 'M2'

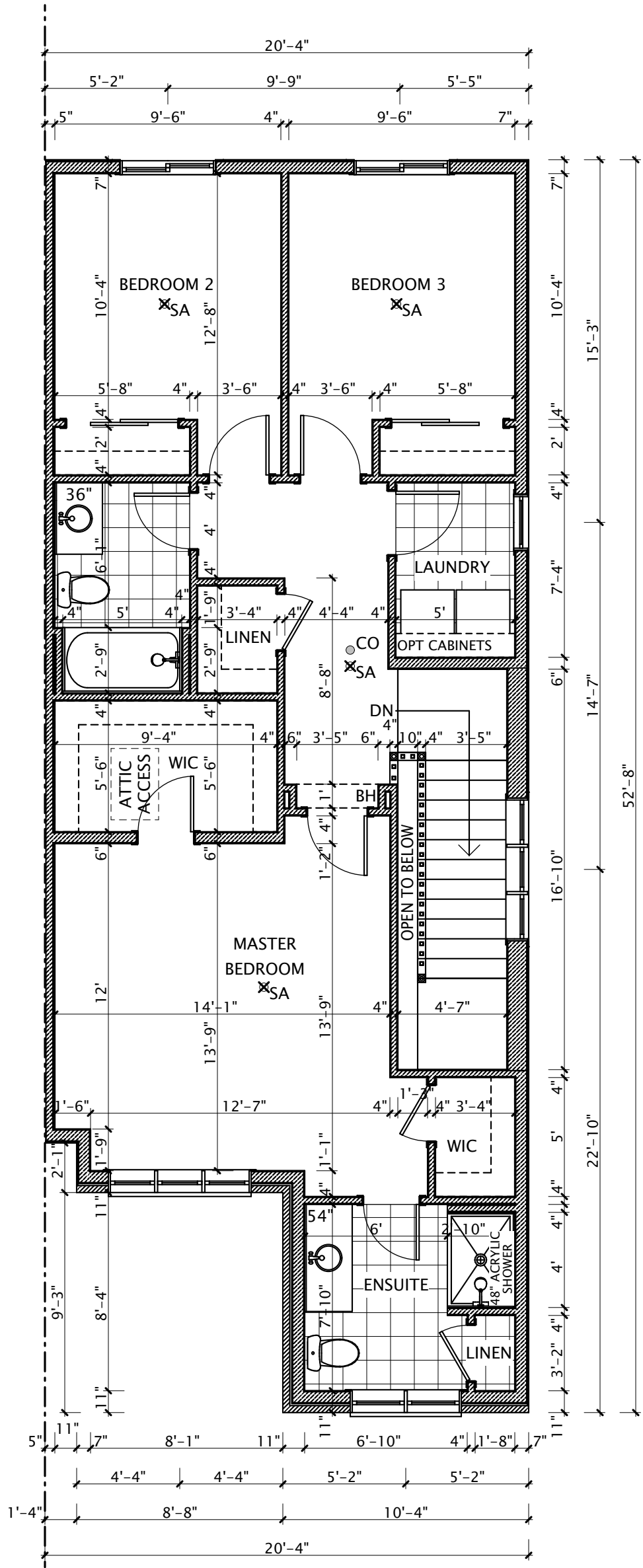
NOTE: ALL FLOORS GLUED & SCREWED WITH DRYWALL STRAPPING

PROJECT NAME: <b>LENNON</b>		PROJECT ID:	DATE: March 2, 2021	SCALE: 3/16" = 1'0"	DRAWN BY: TL
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. 26105.		PAGE: 6M2 OF 10
PLAN NO: <b>00M-000</b>	 <b>MOUNTAINVIEW HOMES</b> <small>3350 MERRITTVILLE HWY #9, THOROLD, ONT. PHONE: (905) 688-3100 FAX: (905) 688-5524</small>		BCIN: <b>22084</b>	DSG NR. SIG:	



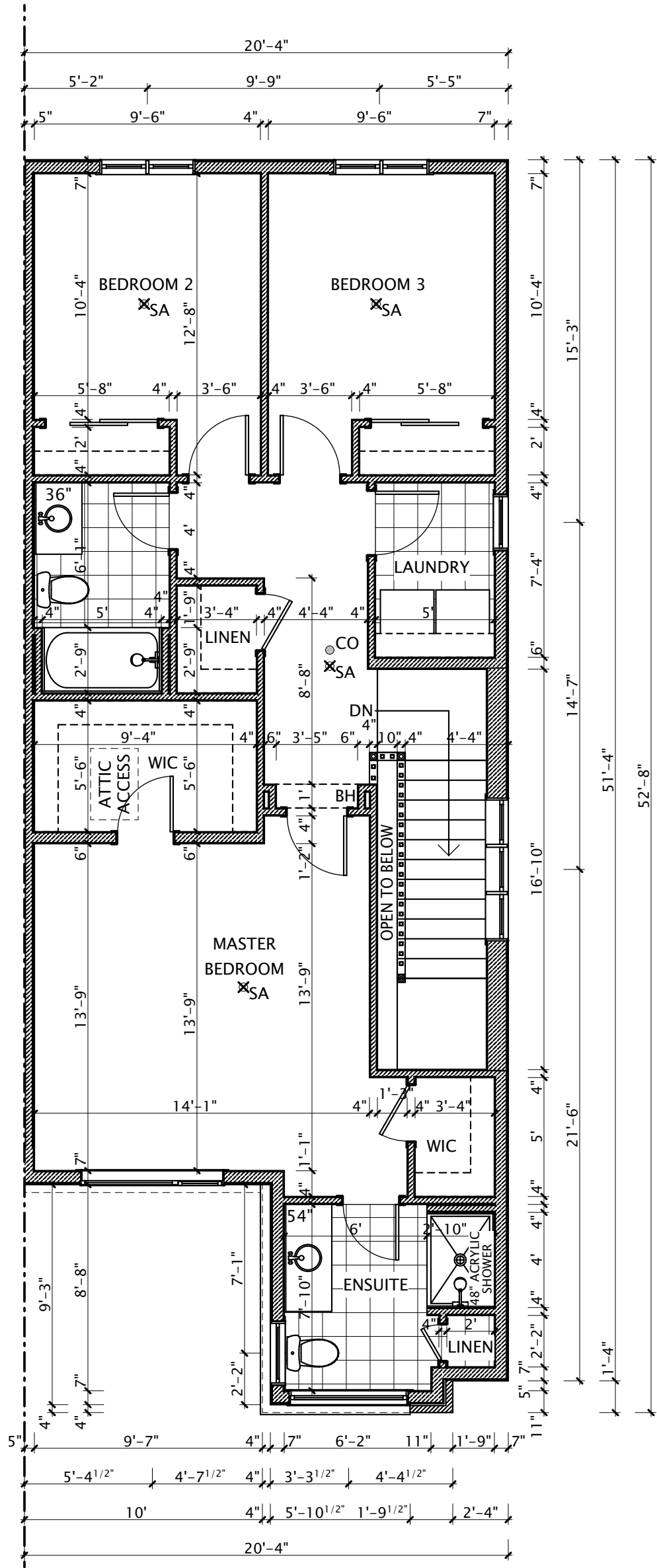
**SECOND FLOOR**  
**954 SQFT ELEV. 'A'**

PROJECT NAME: <b>LENNON</b>		PROJECT ID:	DATE: March 2, 2021	SCALE: 3/16" = 1'0"	DRAWN BY: TL
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. <u>26105</u> .		PAGE: <b>7A OF 10</b>
PLAN NO: <b>00M-000</b>	 <b>MOUNTAINVIEW HOMES</b> <small>3350 MERRITTVILLE HWY #9, THOROLD, ONT.          PHONE: (905) 688-3100 FAX: (905) 688-5524</small>		BCIN: <b>22084</b>	DSG NR. SIG:	



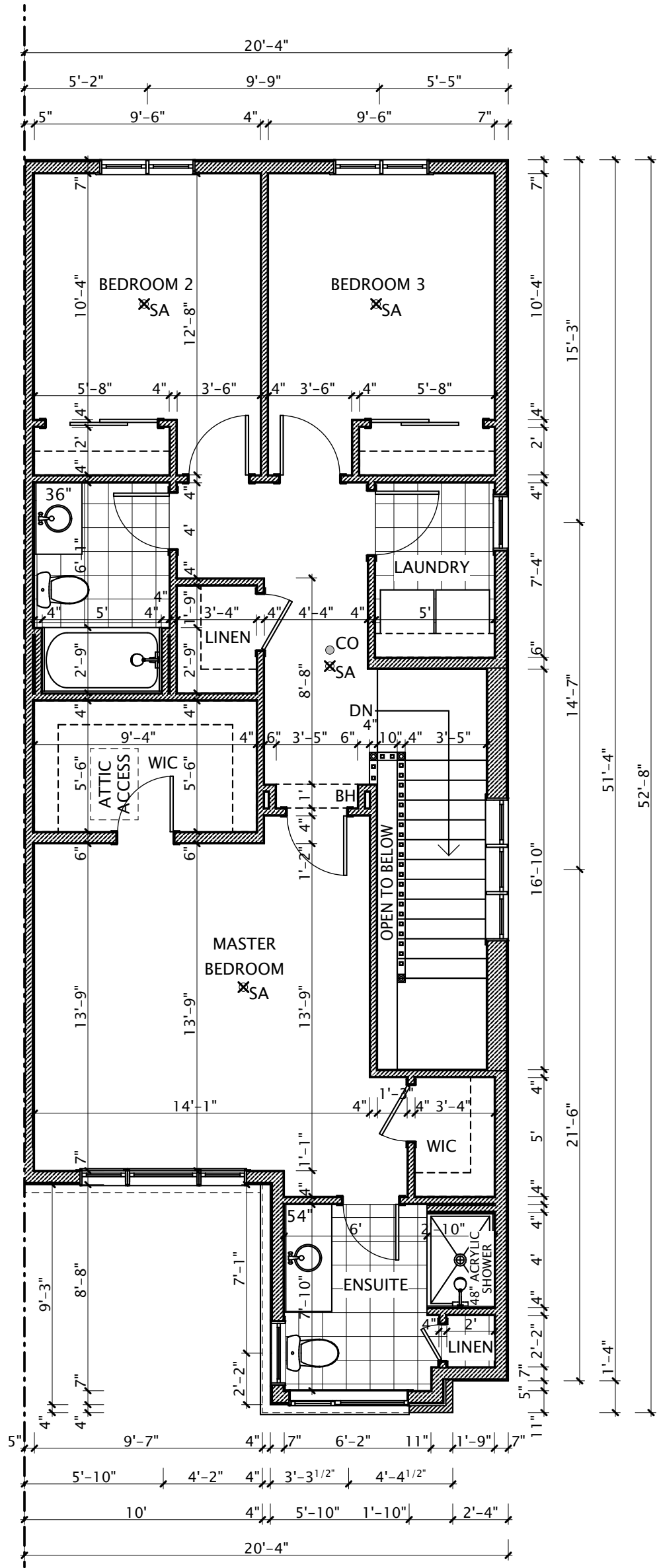
SECOND FLOOR  
965 SQFT ELEV. 'B'

PROJECT NAME: <b>LENNON</b>		PROJECT ID:	DATE: March 2, 2021	SCALE: 3/16" = 1'0"	DRAWN BY: TL
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. <u>26105</u> .		PAGE: <b>7B OF 10</b>
PLAN NO: <b>00M-000</b>	 <b>MOUNTAINVIEW HOMES</b> <small>3350 MERRITTVILLE HWY #9, THOROLD, ONT. PHONE: (905) 688-3100 FAX: (905) 688-5524</small>		BCIN: <b>22084</b>	DSG NR. SIG:	



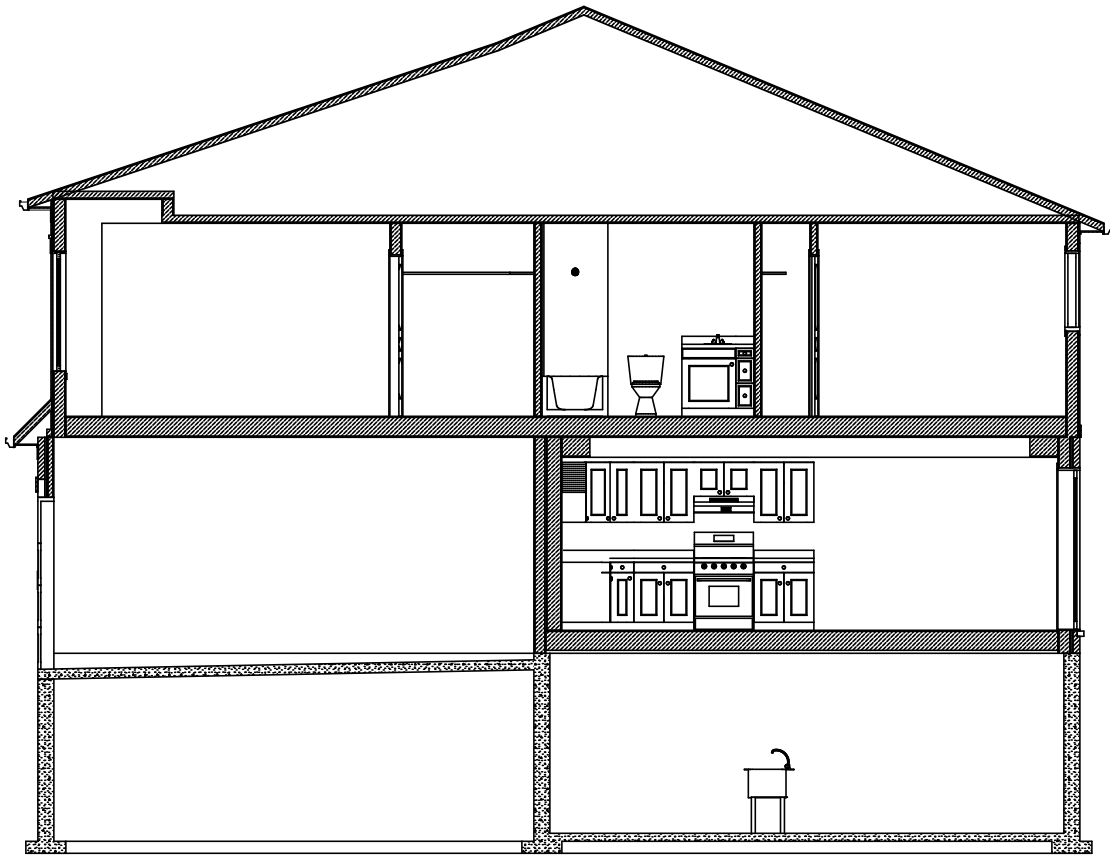
SECOND FLOOR  
961 SQFT ELEV. 'M1'

PROJECT NAME: <b>LENNON</b>		PROJECT ID:	DATE: March 2, 2021	SCALE: 3/16" = 1'0"	DRAWN BY: TL
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. 26105.		PAGE: 7M1 OF 10
PLAN NO: 00M-000		 <b>MOUNTAINVIEW HOMES</b> <small>3350 MERRITTVILLE HWY #9, THOROLD, ONT. PHONE: (905) 688-3100 FAX: (905) 688-5524</small>		BCIN: 22084	DSG NR. SIG:

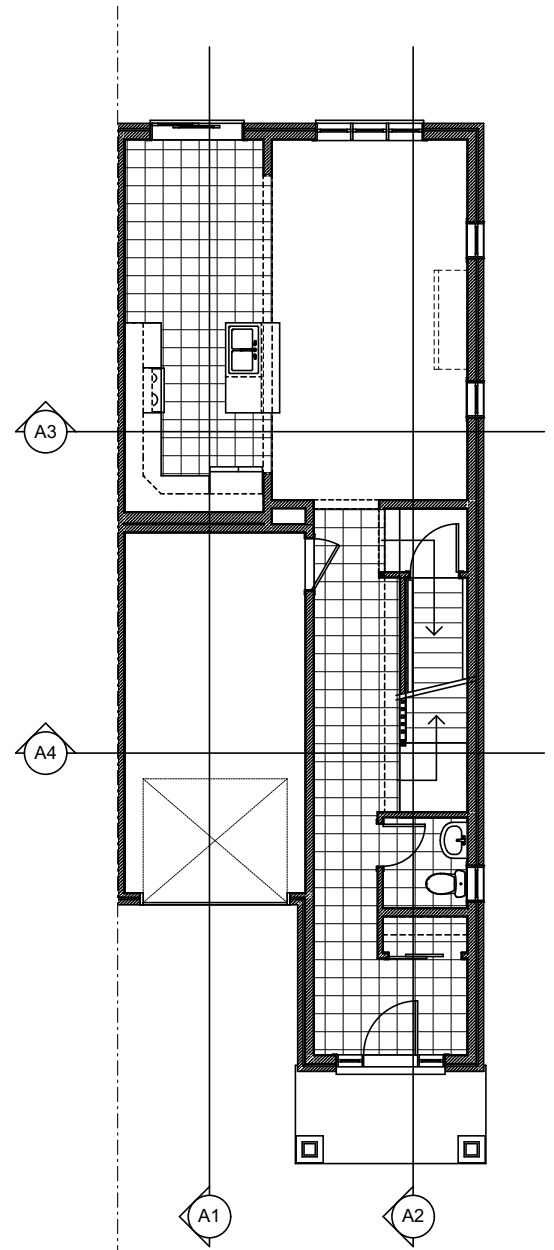


SECOND FLOOR  
961 SQFT ELEV. 'M2'

PROJECT NAME: <b>LENNON</b>		PROJECT ID:	DATE: March 2, 2021	SCALE: 3/16" = 1'0"	DRAWN BY: TL
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. <u>26105</u> .		PAGE: 7M2 OF 10
PLAN NO: <b>00M-000</b>	 <b>MOUNTAINVIEW HOMES</b> <small>3350 MERRITTVILLE HWY #9, THOROLD, ONT. PHONE: (905) 688-3100 FAX: (905) 688-5524</small>		BCIN: <b>22084</b>	DSG NR. SIG:	

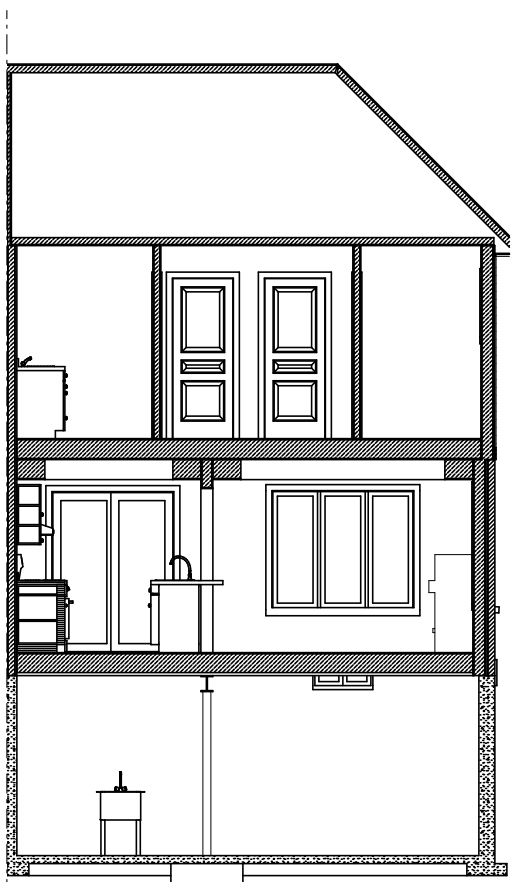


A1

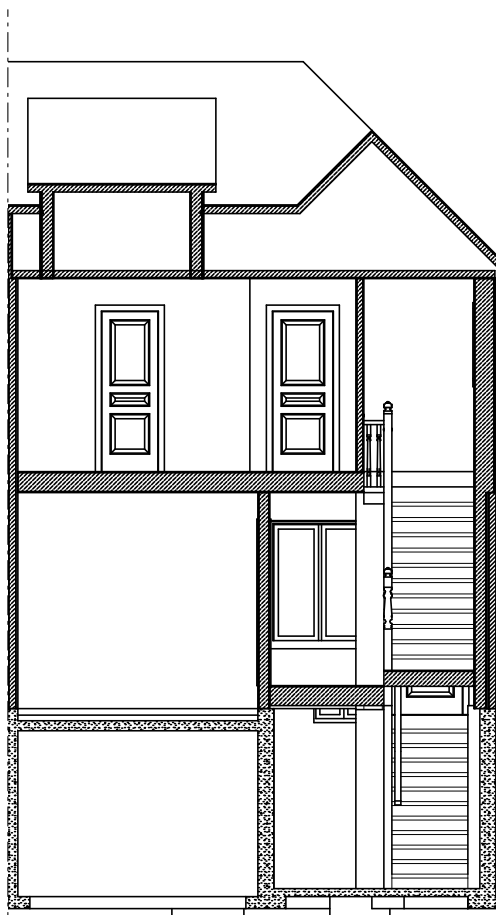


A2

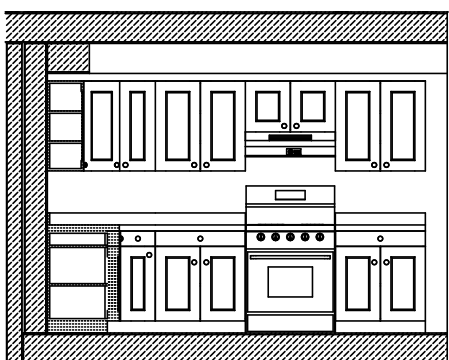
PROJECT NAME: <b>LENNON</b>		PROJECT ID:	DATE: March 2, 2021	SCALE: 1/8" = 1'0"	DRAWN BY: TL
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. <u>26105</u> .		PAGE: <b>8 OF 10</b>
PLAN NO: <b>00M-000</b>		 <b>MOUNTAINVIEW</b> HOMES 3350 MERRITTVILLE HWY #9, THOROLD, ONT. PHONE: (905) 688-3100 FAX: (905) 688-5524	BCIN: <b>22084</b>	DSG NR. SIG:	



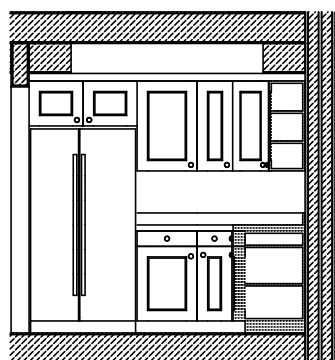
A3  
1/8" = 1'0"



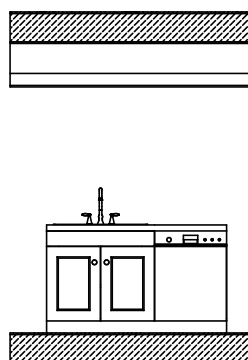
A4



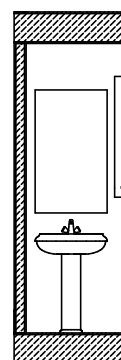
K1  
3/16" = 1'0"



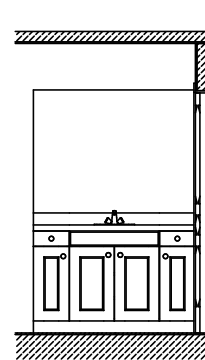
K2



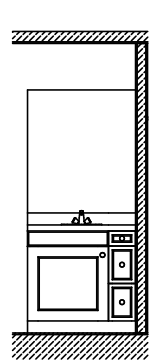
K3



V1



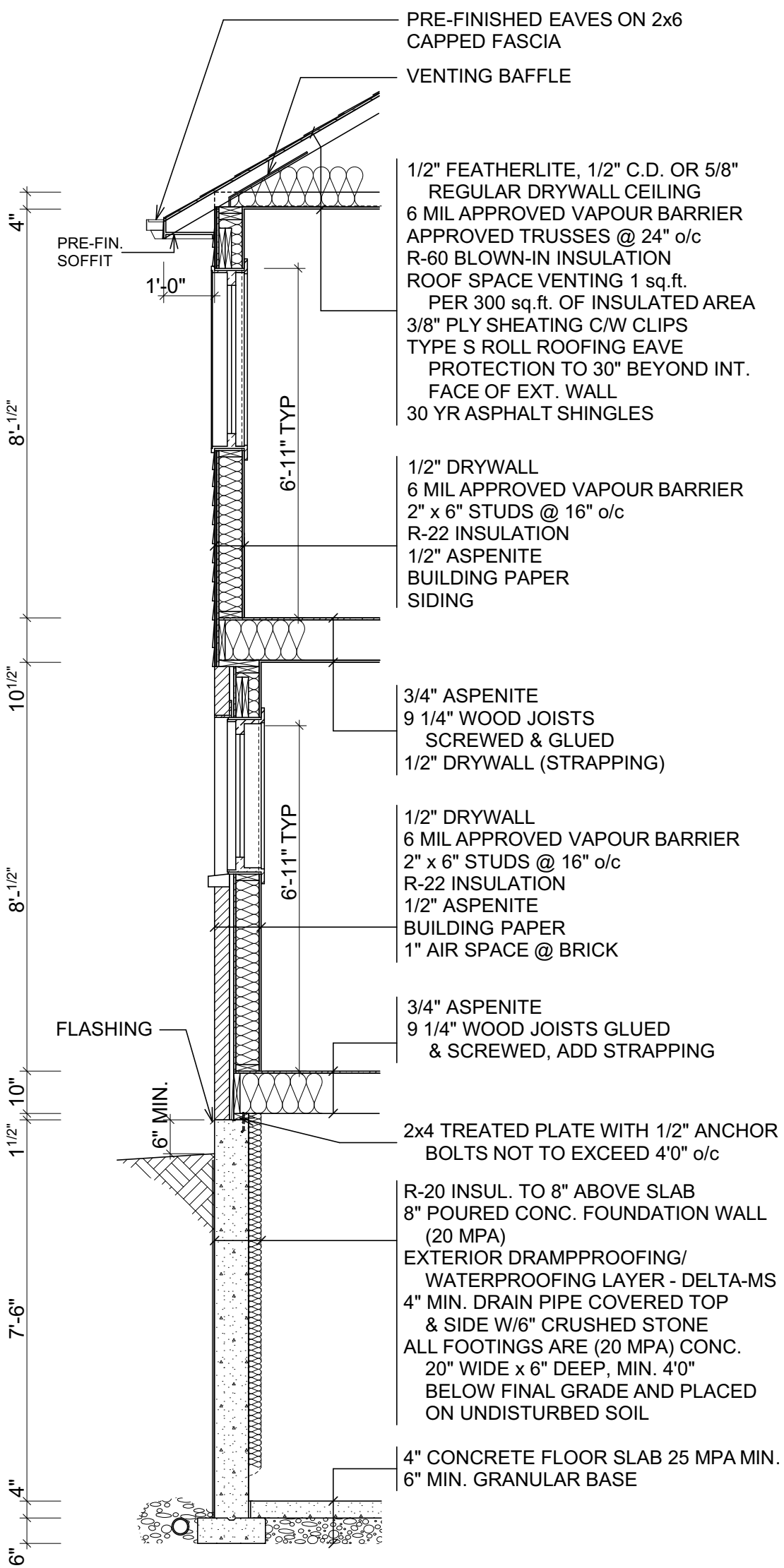
V2



V3

PROJECT NAME: <b>LENNON</b>		PROJECT ID:	DATE: <b>March 2, 2021</b>	SCALE:	DRAWN BY: <b>TL</b>
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. <u>26105</u> .		PAGE: <b>9 OF 10</b>
PLAN NO: <b>00M-000</b>		 <b>MOUNTAINVIEW HOMES</b> <small>3350 MERRITTVILLE HWY #9, THOROLD, ONT.          PHONE: (905) 688-3100 FAX: (905) 688-5524</small>		BCIN: <b>22084</b>	DSG NR. SIG: _____





W5 **TWO STOREY  
8' CEILING SECTION**

**MAXIMUM ALLOWABLE SPANS FOR STEEL LINTELS SUPPORTING MASONRY VENEER (FROM TABLE 9.20.5.2.B OBC 2012)**

ANGLE SIZE (VERT. LEG x HORIZ. LEG x THICKNESS)	MAX ALLOWABLE SPAN	
	3 1/2" BRICK	4" STONE
4" x 3 1/2" x 1/4"	8'9"	
4 7/8" x 3 1/2" x 5/16"		10'1"
5 7/8" x 3 1/2" x 3/8"	12'7"	
5 7/8" x 4" x 1/2"		12'7"

**MAXIMUM SPANS FOR EXTERIOR S-P-F LINTELS No. 1 OR No. 2 GRADE - NON-STRUCTURAL SHEATHING (FROM TABLE A-15 OBC 2012) NO POINT LOADS SEE "NOTES TO TABLE A-15" FOR ALLOWABLE SPAN INCREASES**

LINTEL SUPPORTING AND LINTEL SIZE (INCH)	SNOW LOAD		
	UNDER 1.5kPA	1.5kPA-2.5kPA	2.5kPA-3.0kPA
	GRIMSBY 0.9 kPA ST. CATH 1.0 kPA THOROLD 1.0 kPA NOTL 1.0 kPA	NIAGARA F 2.0 kPA KITCHENER 2.0 kPA WELLAND 2.2 kPA PELHAM 2.3 kPA	RIDGEWAY 2.5 kPA FORT ERIE 2.6 kPA
ROOF AND CEILING ONLY 2-2x10 (TRIB WIDTH 4.9m MAX)	1.0 kPA - 9'5" (2.88m) 1.5 kPA - 8'1" (2.47m)	2.0 kPA - 7'2" (2.20m) 2.5 kPA - 6'7" (2.01m)	2.5 kPA - 6'7" (2.01m) 3.0 kPA - 6'0" (1.84m)
ROOF, CEIL & 1 STOREY 2-2x10	1.0 kPA - 7'3" (2.22m) 1.5 kPA - 6'8" (2.04m)	2.0 kPA - 6'2" (1.89m) 2.5 kPA - 5'8" (1.73m)	2.5 kPA - 5'8" (1.73m) 3.0 kPA - 5'2" (1.59m)
ROOF, CEIL & 2 STOREY 2-2x10	1.0 kPA - 6'6" (1.99m) 1.5 kPA - 6'1" (1.87m)	2.0 kPA - 5'7" (1.72m) 2.5 kPA - 5'3" (1.60m)	2.5 kPA - 5'3" (1.60m) 3.0 kPA - 4'11" (1.50m)
ROOF AND CEILING ONLY 2-2x12 (TRIB WIDTH 4.9m MAX)	1.0 kPA - 10'11" (3.34m) 1.5 kPA - 9'5" (2.87m)	2.0 kPA - 8'4" (2.56m) 2.5 kPA - 7'7" (2.33m)	2.5 kPA - 7'7" (2.33m) 3.0 kPA - 6'10" (2.09m)
ROOF, CEIL & 1 STOREY 2-2x12	1.0 kPA - 8'5" (2.58m) 1.5 kPA - 7'9" (2.36m)	2.0 kPA - 7'0" (2.15m) 2.5 kPA - 6'5" (1.96m)	2.5 kPA - 6'5" (1.96m) 3.0 kPA - 5'11" (1.81m)
ROOF, CEIL & 2 STOREY 2-2x12	1.0 kPA - 7'7" (2.31m) 1.5 kPA - 6'11" (2.12m)	2.0 kPA - 6'5" (1.96m) 2.5 kPA - 5'11" (1.82m)	2.5 kPA - 5'11" (1.82m) 3.0 kPA - 5'7" (1.71m)

**MOUNTAINVIEW INTERIOR/EXTERIOR DOOR LOCATIONS AND SIZES**

LOCATION	RSO	FINISHED
BEDROOMS/OFFICE/DEN/OTHER	32"x83"	30"x81 1/2"
WASHROOMS/WIC	30"x83"	28"x81 1/2"
BASEMENT/LAUNDRY	34"x83"	32"x81 1/2"
48" CLOSET SLIDERS	49"x84"	47"x82 1/2"
60" CLOSET SLIDERS	61"x84"	59"x82 1/2"
72" CLOSET SLIDERS	73"x84"	71"x82 1/2"
FRONT ENTRY MAN DOOR		36"x81 1/2"
DOOR FROM GARAGE TO INT.		32"x81 1/2"
DOOR FROM GARAGE TO EXT.		32"x81 1/2"

PROJECT NAME: <b>LENNON</b>	PROJECT ID:	<p><b>MOUNTAINVIEW HOMES</b> 3350 MERRITTVILLE HWY #9, THOROLD, ONT. PHONE: (905) 688-3100 FAX: (905) 688-5524</p>	DATE: <b>March 2, 2021</b>	SCALE: <b>3/8" = 1'0"</b>	DRAWN BY: <b>TL</b>
LOT: <b>00</b>	PROJECT ADDRESS: <b>STREET CITY, ON</b>		<p>TIM LUNDY has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the OBC as an "other designer." Basis for exemption from registration is project covered under Tarion no. <u>26105</u></p>	BCIN: <b>22084</b>	DSG NR. SIG:
PLAN NO: <b>00M-000</b>					