



## City of Port Moody

### Report/Recommendation to Council

Date: March 23, 2022  
Submitted by: Community Development Department – Development Planning Division  
Subject: Rezoning (Stacked Townhouses) – 2222 Clarke Street (Mara + Natha Architecture)

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#### Purpose

To present for Council consideration of first and second reading, a rezoning application to facilitate the redevelopment of the property at 2222 Clarke Street. (File: 13-6700-20-REZ00020)

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#### Recommended Resolution(s)

**THAT City of Port Moody Zoning Bylaw, 2018, No. 2937, Amendment Bylaw No. 67, 2022, No. 3350 (2222 Clarke Street) (RM4) be read a first and second time as recommended in the report dated March 23, 2022 from the Community Development Department – Development Planning Division regarding Rezoning (Stacked Townhouses) – 2222 Clarke Street (Mara + Natha Architecture);**

**AND THAT City of Port Moody Zoning Bylaw, 2018, No. 2937, Amendment Bylaw No. 67, 2022, No. 3350 (2222 Clarke Street) (RM4) be referred to a Public Hearing.**

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#### Background

A previous rezoning application to facilitate a 10-unit stacked townhouse development at 2222 Clarke Street was presented to Council in 2021. The previous rezoning bylaw received first and second readings from Council on February 2, 2021. A Public Hearing was held on March 8, 2021, following which Council defeated the Bylaw at third reading consideration due to concerns regarding the unit count and amenity space; this ended the rezoning process for that application.

After consideration of all the feedback that has been received to this point, the owner of the property has submitted a new application which proposes the Medium Density Townhouse Residential (RM4) Zone instead of a Comprehensive Development (CD) Zone, with a reduction to the overall number of units and an increase in overall outdoor amenity space.

The current application was presented to the Land Use Committee (LUC) on January 10, 2022, the Advisory Design Panel (ADP) on January 20, 2022, and early input from Council on February 15, 2022. Draft meeting minutes for the LUC are included as **Attachment 1** and for

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the ADP as **Attachment 2**. Draft Bylaw No. 3350 is included as **Attachment 3** and an Application Fact Sheet is included as **Attachment 4**.

## Discussion

### Property Description:

The development site consists of one existing single-family property on Clarke Street, west of Elgin Street, as shown on the Location Map (**Attachment 5**). The total site area is approximately 809m<sup>2</sup> (8,706ft<sup>2</sup>) in size, and generally slopes downwards from south to north with a 3m (9.8ft) change in elevation. The site has limited development potential for assembly with adjacent sites due to a set of heritage buildings to the east and a watercourse to the west. The lot is currently occupied by a single-family dwelling in poor condition.

### Official Community Plan (OCP) and Zoning:

The OCP designates the subject site for Multi-Family Residential uses up to a maximum of six storeys (**Attachment 6**). The site is also located in Development Permit Area 2 (DPA2) – Moody Centre – Heritage Conservation Area (HCA) (**Attachment 7**), which regulates the form and character through the DPA 2 and HCA Design Guidelines.

The subject lot is currently zoned Single Detached Residential (RS1) (**Attachment 8**).

### Neighbourhood Context:

The subject property is located in the Moody Centre Heritage Conservation Area with a variety of heritage buildings in the immediate area. Specific surrounding development consists of:

- North: Vacant General Industrial (M2) lot;
- East: Two municipally-designated heritage buildings with commercial uses;
- South: A mix of RS1 lots and Adaptive Commercial (C6) lots; and
- West: RS1 lot developed with a single-family dwelling, which also has a watercourse located on it.

### Development Proposal Description:

The current proposal consists of a three-storey, eight-unit stacked townhouse development containing:

- five two-bedroom units (two are proposed to be accessible one-storey units located on the ground floor);
- two two-bedroom and den units;
- one four-bedroom and den unit;
- a floor area ratio (FAR) of 1.24;
- 15 underground parking spaces accessed from Vintner Street, including 13 residential and two visitor spaces;
- 18 long-term bicycle storage spaces;
- 78m<sup>2</sup> (844ft<sup>2</sup>) of private rooftop amenity spaces for four of the units; and
- 101m<sup>2</sup> (1,085ft<sup>2</sup>) of outdoor common amenity courtyard area on the ground floor.

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### Project Plans and Technical Reports

- Architectural Plans for the project are included as **Attachment 9**;
- Landscape Plans are included as **Attachment 10**;
- An arborist report is included as **Attachment 11**;
- A geotechnical report is included as **Attachment 12**; and
- An environmental report is included as **Attachment 13**.

### RM4 Zoning and Development Permit Variances

The rezoning application has been revised to rezone the lands to the RM4 Zone (instead of a CD Zone previously). As the rezoning request follows a conventional zone, the applicant is requesting the following variances as part of the Development Permit:

- To increase the lot coverage from 40% 43%;
- To reduce the number of Electric Vehicle (EV) Charging stations from 15 to eight (8).
  - The applicant has indicated that to make the units more affordable, each townhouse unit would be allotted at least one EV charging parking space.
- To reduce the minimum lot area and lot width of the RM4 Zone by 50%.
  - Due to the watercourse to the west and the heritage buildings to the east, assembly of multiple properties would be challenging and unlikely.

A comparison of the progression of each proposal from the first proposal to the current is outlined in the table below.

	Defeated Proposal (2021)	Current Proposal (at Early Input)	Current Proposal (First Reading)
Zone	Comprehensive Development	Comprehensive Development	RM4 Zone
Density (FAR)	1.32	1.29	1.24
Number of Units	10	9	8
Lot Coverage	44%	43%	43%
Common Outdoor Amenity Space	6.5m <sup>2</sup> per dwelling unit Total: 65m <sup>2</sup> (700ft <sup>2</sup> )	7.2m <sup>2</sup> per dwelling unit Total: 65m <sup>2</sup> (700ft <sup>2</sup> )	12.6m <sup>2</sup> per dwelling unit Total: 101m <sup>2</sup> (1,085ft <sup>2</sup> )
Private Rooftop Amenity Space	None	Total: 78m <sup>2</sup> (844ft <sup>2</sup> )	Total: 78m <sup>2</sup> (844ft <sup>2</sup> )

### Accessible Units

The project proposes two fully accessible two-bedroom units located on the ground floor to be secured through a restrictive covenant. To complement the accessible units, two accessible parking spaces are included in the underground parking structure, plus an elevator from the underground parking level to the ground floor. The two units will also have easy access to Clarke Street.

### Affordable Housing

This project is exempt from the Interim Affordable Housing Guidelines Policy since it only proposes townhouse units and is under the 30-unit threshold. That said, the developer has indicated that as a part of the company's practice, a minimum of two units will be owned by the developer and available as market rental units.

### Environmental Considerations

The applicant has worked with staff to ensure that a ditch along Vintner Street is protected with a 5m Riparian Protection and Enhancement Area (RPEA) as required by the Zoning Bylaw. This has resulted in a reduced separation distance and amenity space area between the two

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proposed buildings. Notwithstanding these constraints, the site plan remains consistent with the design guidelines for this type of development.

### Sustainability Report Card

The completed Sustainability Report Card for the development proposal is included as **Attachment 14**. It is noted that Council has endorsed a new Sustainability Report Card which came into effect on April 1, 2022. In-stream applications that proceed to second reading after May 1, 2022 will be required to submit the new version of the report card. Based on these procedures, the previous version of the report card is still included for this application and the following table summarizes the scoring.

<div>Sustainability Pillar</div> <div>Application</div>	Cultural	Economic	Environmental	Social	Overall Total
2222 Clarke Street	73% (8 out of 11)	86% (6 out of 7)	63% (36 out of 53)	77% (27 out of 35)	73%

### Other Option(s)

THAT City of Port Moody Zoning Bylaw, 2018, No. 2937, Amendment Bylaw No. 67, 2022, No. 3350 (2222 Clarke Street) (RM4) be revised to address the following:

- list issues.

### Financial Implications

#### Community Amenity Contribution

Per the City's Community Amenity Contribution (CAC) Policy, the applicant has agreed to pay \$6,000 per unit for a total of \$42,000 after a CAC credit of \$6,000 is calculated for the existing lot.

#### Public Art Contribution

The applicant has committed to providing a contribution to the Public Art Reserve Fund, which will be based on 0.5% of the cost of construction in accordance with the Public Art Policy. Construction costs for this project are projected to be approximately \$2,800,000, which would provide an estimated contribution of \$14,000 to the Public Art Reserve Fund.

#### Off-Site Improvement Contributions

Per the City's Master Transportation Plan, the development would contribute towards off-site amenities including \$10,400 cash-in-lieu for a future bicycle infrastructure along Clarke Street and \$10,000 cash-in-lieu for intersection improvements at St. Johns Street and Elgin Street.

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### Communications and Civic Engagement Initiatives

A notification sign informing the public of the rezoning application has been placed on the subject site in accordance with City of Port Moody Development Approval Procedures Bylaw, 2011, No. 2918.

If the rezoning application is given first and second readings, the public will have an opportunity to comment at the Public Hearing, which will occur following a mail-out notification to adjacent residents, an advertisement placed in the local newspaper, and a decal of the Public Hearing time and date placed on the notification sign.

The applicant held a public information meeting in accordance with the Public Stakeholder and Consultation for Major Development Projects or Area Plans Policy with the previous application on October 1, 2020. Based on the feedback received at this meeting and the previous Public Hearing on March 8, 2021, staff believe that a Public Hearing for the current proposal gives adequate opportunity for members of the community to provide their input.

### Council Strategic Plan Objectives

The proposal is consistent with the 2019-2022 Council Strategic Plan priority of Community Evolution as it relates to the objective of ensuring that future community growth is carefully considered and strategically managed, consistent with the City's Official Community Plan.

### Attachment(s)

1. Draft LUC Minutes, January 10, 2022.
2. Draft ADP Minutes, January 20, 2022.
3. Draft Bylaw No. 3350 (2222 Clarke Street) (RM4).
4. Application Fact Sheet – 2222 Clarke Street.
5. Location Map – 2222 Clarke Street.
6. OCP Land Use Designations Map – 2222 Clarke Street.
7. Moody Centre Heritage Conservation Area – 2222 Clarke Street.
8. Zoning Map – 2222 Clarke Street.
9. Architectural Plans – 2222 Clarke Street.
10. Landscape Plans – 2222 Clarke Street.
11. Arborist Report – 2222 Clarke Street.
12. Geotechnical Report – 2222 Clarke Street.
13. Environmental Report – 2222 Clarke Street.
14. Sustainability Report Card – 2222 Clarke Street.

### Report Author

Wesley Woo, MCIP, RPP  
Senior Planner

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### Report Approval Details

Document Title:	Rezoning (Stacked Townhouses) – 2222 Clarke Street (Mara + Natha Architecture).docx
Attachments:	<ul style="list-style-type: none"> <li>- Attachment 1 - Draft LUC Minutes - January 10, 2022.pdf</li> <li>- Attachment 2 - Draft ADP Minutes - January 20, 2022.pdf</li> <li>- Attachment 3 - Draft Bylaw No. 3350 (2222 Clarke Street) (RM4).pdf</li> <li>- Attachment 4 - Application Fact Sheet - 2222 Clarke Street.pdf</li> <li>- Attachment 5 - Location Map - 2222 Clarke Street.pdf</li> <li>- Attachment 6 - OCP Land Use Designations Map - 2222 Clarke Street.pdf</li> <li>- Attachment 7 - Moody Centre Heritage Conservation Area - 2222 Clarke Street.pdf</li> <li>- Attachment 8 - Zoning Map - 2222 Clarke Street.pdf</li> <li>- Attachment 9 - Architectural Plans - 2222 Clarke Street.pdf</li> <li>- Attachment 10 - Landscape Plans - 2222 Clarke Street.pdf</li> <li>- Attachment 11 - Arborist Report - 2222 Clarke Street.pdf</li> <li>- Attachment 12 - Geotechnical Report - 2222 Clarke Street.pdf</li> <li>- Attachment 13 - Environmental Report - 2222 Clarke Street.pdf</li> <li>- Attachment 14 - Sustainability Report Card - 2222 Clarke Street.pdf</li> </ul>
Final Approval Date:	Apr 14, 2022

This report and all of its attachments were approved and signed as outlined below:

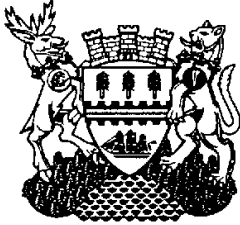
André Boel, City Planner - Apr 13, 2022 - 10:41 AM

Kate Zanon, General Manager of Community Development - Apr 13, 2022 - 12:12 PM

Rosemary Lodge, Manager of Communications and Engagement - Apr 13, 2022 - 2:16 PM

Paul Rockwood, General Manager of Finance and Technology - Apr 13, 2022 - 7:01 PM

Paul Rockwood for Tim Savoie, City Manager - Apr 14, 2022 - 12:53 PM



## City of Port Moody Minutes Land Use Committee

Minutes of the meeting of the Land Use Committee held on  
Monday, January 10, 2022 held via Zoom.

**Present**

Councillor Meghan Lahti, Vice-Chair  
Haven Lurbiecki  
Wilhelmina Martin  
Hazel Mason  
Sean Ogilvie (arrived at 7:07pm)  
David Stuart (arrived at 8:10pm)

**Absent**

Councillor Zoe Royer, Chair (Regrets)

**In Attendance**

André Boel – City Planner  
Jennifer Mills – Committee Coordinator  
Wesley Woo – Senior Planner

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1. Call to Order

**Call to Order**

- 1.1 The Vice-Chair called the meeting to order at 7:05pm.

Sean Ogilvie entered the meeting at this point.

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2. Adoption of Minutes

**Minutes**

- 2.1 LUC22/001  
Moved, seconded, and CARRIED  
**THAT the minutes of the Land Use Committee meeting held  
on Monday, November 8, 2021 be adopted.**  
(Voting against: Wilhelmina Martin)

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3. Unfinished Business

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## 4. New Business

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### **Committee Orientation**

#### 4.1 City Planner and Committee Coordinator

##### Attachments:

- a) Committee Orientation Manual, dated January 2022
- b) Land Use Committee – Terms of Reference

The Committee Coordinator provided an overview of the the City's committee system.

The City Planner provided an overview of the Land Use Committee Terms of Reference, including information about the following topics:

- the three types of development approvals related to land use that can be referred to the Committee: Official Community Plan (OCP) amendments, zoning amendments, and temporary use permits;
- the Committee's role in the development review process; and
- the criteria for consideration of applications:
  - OCP;
  - land use/density;
  - neighbourhood context;
  - affordable housing;
  - economic impact; and
  - mobility.

### **Rezoning (Stacked Townhouses) – 2222 Clarke Street (Mara + Natha Architecture)**

#### 4.2 Report: Community Development Department – Development Planning Division, dated December 23, 2021

The Senior Planner gave a presentation on the rezoning application, including information about the location, OCP Land Use Designations, Moody Centre Heritage Conservation Area, Ottley Creek watercourse, zoning, key features, unit mix, stacked townhouse design details, views from Clarke Street and Vintner Street, site plan, and perspective views.

Staff answered questions from the Committee about the following topics:

- differences of this proposal compared to the previously defeated application;
- zoning of 2202 to 2222 Clarke Street;
- opportunities for similar developments in the area;
- impacts to the nearby watercourse; and
- tree replacement.

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The Committee noted the following in discussion:

- the approval of a stacked townhouse development in this neighbourhood could set a precedent;
- the stacked townhouse design may not be appropriate for families;
- the target family market may favour the traditional townhouse format more where a small greenspace and garage are included in the design;
- the area is the right location for a family-oriented townhouse development;
- there are too many units in the design and the density is too high;
- the amenities are not appropriate for the target family market;
- there are concerns about the loss of tree canopy in the area and the loss of mature trees in Moody Centre;
- the City could consider tracking the removal and replacement of trees;
- the design may be desirable to seniors as it provides street-level accessible suites on a transit route with no outdoor maintenance;
- the developer has designed the space creatively with the intention of keeping the sale price affordable;
- the design could include more amenity space, such as a communal garden, as the surrounding area has little amenities; and
- the area could be more suitable for mixed-employment.

### LUC22/002

Moved, seconded, and DEFEATED

**THAT the Land Use Committee recommends that the proposed land use for application Rezoning – 2222 Clarke Street (Mara + Natha Architecture) is appropriate but that the applicant consider the comments made in the Land Use Committee meeting of January 10, 2022 regarding concerns about density and amenity space.**

(Voting against: Haven Lurbiecki and Hazel Mason)

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## LUC22/003

Moved, seconded, and CARRIED

**THAT the Land Use Committee recommends that the proposed land use for application Rezoning – 2222 Clarke Street (Mara + Natha Architecture) is not appropriate for the following reasons:**

- **density is too high;**
- **amenity space is lacking; and**
- **more consideration is needed for the economic drivers in area.**

(Voting against: Wilhelmina Martin)

## 5. Information

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### Information

### 5.1 Attachments:

- 2022 Meeting Schedule – Land Use Committee
- Zoom Webinar Instructions for Committee Members
- Anti-Racial Discrimination and Anti-Racism Policy
- Privacy Breach Policy
- Respectful Workplace Policy
- [Draft Five Year Financial Plan – 2020-2024](#)
- [2019-2022 Council Strategic Plan](#)


This item was provided for information only.

David Stuart entered the meeting at this point.


## 6. Adjournment

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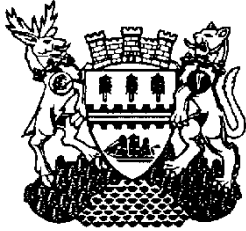
The Vice-Chair adjourned the meeting at 8:12pm.



Councillor Meghan Lahti,  
Vice-Chair



Jennifer Mills,  
Committee Coordinator



## City of Port Moody Minutes Advisory Design Panel

Minutes of the meeting of the Advisory Design Panel held on Thursday, January 20, 2022 via Zoom.

### Present

Melissa Chaun  
Eric Hedekar  
Patricia Mace  
Hossam Meawad  
Callan Morrison (arrived at 7:04pm)  
Kate O'Neill  
Patrick Schilling  
Mike Teed

### Absent

Councillor Zoë Royer, Alternate Council Representative  
Sam Zacharias – Constable, Port Moody Police Department  
(Regrets)

### In Attendance

André Boel – City Planner  
Esin Gozukara – Committee Coordinator  
Councillor Steven Milani, Council Representative  
Wesley Woo – Senior Planner

### Also In Attendance

Krishan Anand, Applicant, Nugen Projects  
Caelan Griffiths, Landscape Architect, PMG Landscape Architects  
Ben Leavitt, Creative Director, Plaidfox  
Rob Lee, Director, Mara + Natha Architecture

#### 1. Call to Order

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### Call to Order

- 1.1 The Committee Coordinator called the meeting to order at 7:02pm.

#### 2. Adoption of Minutes

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### Minutes

- 2.1 ADP22/001  
Moved, seconded, and CARRIED  
**THAT the minutes of the Advisory Design Panel meeting held on Thursday, November 18, 2021 be adopted.**

# Considered at the Regular Council Meeting of May 10, 2022

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## 3. Unfinished Business

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## 4. New Business

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### Committee Orientation

#### 4.1 Presentation: Committee Coordinator

The Committee Coordinator gave an orientation to Panel members. The City Planner reviewed the Panel's consideration criteria for applications, and the Terms of Reference of the Panel. Panel members introduced themselves and provided their backgrounds.

#### ADP22/002

Moved, seconded, and CARRIED

**THAT Hossam Meawad be appointed as Chair and Patrick Schilling be appointed as Vice-Chair of the Advisory Design Panel.**

### ADP – Rezoning (Stacked Townhouses) – 2222 Clarke Street (Mara + Natha Architecture)

#### 4.2 Report: Community Development Department – Development Planning Division, dated January 13, 2022

Hossam Meawad assumed the role of Presiding Member at this point.

The applicants gave a presentation on the application, including design and branding elements, proposed unit summary, accessible units, design changes, landscaping plan, site plan, building plans, off-street parking, proposed amenity space, tree removal plans, and interior design.

Staff gave a presentation on the application, including location, Official Community Plan (OCP) land use designations, Moody Centre Heritage Conservation Area, site-specific special design guidelines, watercourse, riparian protection and enhancement area, and zoning bylaw.

The applicant responded to questions from the Panel regarding materials used in the exterior, driving inspiration of the exterior look, built-in air conditioning for the units, sound mitigation measures, access to bike parking from the parkade, location of the bike storage, stormwater management plan, tree removal plans, access to the units, irrigation plans, and weather protection for the stairs and elevator.

The Panel members noted the following in discussion:

- the underground parkade is a positive feature;
- units are well-distributed between the two buildings;

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- the Clarke Street elevation requires more articulation;
- the applicant should consider introducing more colour variation or using different materials;
- this application does not differ significantly from the previously submitted one for this site;
- more windows could be added to the main levels of both buildings;
- typology is a good first-step for the neighbourhood, and if it is successfully applied, it could be replicated in other areas;
- the addition of the private decks is a positive feature;
- the outdoor common space could be increased as it appears to be crowded;
- the balconies of Building 1 could be repositioned to prevent them hanging over the outdoor common space;
- the usage of vinyl windows may not be a good choice;
- given the proximity to the railroad tracks, acoustic studies should be completed, and sound mitigation measures should be introduced;
- cross ventilation may not be adequate for the units, and the applicant should consider adding air conditioning features;
- the Clarke Street side of the buildings could be activated;
- the stacked townhouse concept, accessible units, and units with dens are appealing features of the project;
- elevator maintenance could be costly for the future residents;
- the courtyard, BBQ, and stairs could create hazardous conditions for children;
- it appears unlikely for this project to provide five to ten jobs in the community;
- the number of units could be reduced to provide less footprint on the ground level and create more greenspace;
- the Sustainability Report Card for the project should be reviewed;
- a good use of native plants is encouraged to add wildlife value; and
- the applicant should consider retaining the existing trees on site, and reconfiguring north-east corner.

### ADP22/003

Moved, seconded, and CARRIED

**THAT the meeting be extended for up to 30 minutes.**

### ADP22/004

Moved, seconded, and CARRIED

**THAT the proposed project be endorsed subject to the applicant addressing the following specific items;**

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- **resolution of the material selection and colours;**
- **consideration of articulation of the frontage;**
- **compliance with any acoustical requirements;**
- **addition of cooling in each unit;**
- **addition of windows on the sides of the main level;**
- **and**
- **exploration of the tree retention opportunities.**

(Voting against: Melissa Chaun, Eric Hedekar, and Patricia Mace)

### 5. Information

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### 6. Adjournment

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The Chair adjourned the meeting at 9:04pm.

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Hossam Meawad,  
Chair

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Esin Gozukara,  
Committee Coordinator



# City of Port Moody

## Bylaw No. 3350

A Bylaw to amend City of Port Moody Zoning Bylaw, 2018, No. 2937 to rezone the property at 2222 Clarke Street from Single Detached Residential (RS1) to Medium Density Townhouse Residential (RM4).

The Council of the City of Port Moody enacts as follows:

### 1. Citation

- 1.1 This Bylaw may be cited as “City of Port Moody Zoning Bylaw, 2018, No. 2937, Amendment Bylaw No. 67, 2022, No. 3350 (2222 Clarke Street) (RM4)”.

### 2. Amendments

- 2.1 City of Port Moody Zoning Bylaw, 2018, No. 2937 is amended by rezoning the following lands from Single Detached Residential (RS1) to Medium Density Townhouse Residential (RM4).

Lot 40 Block 2 District Lot 202 Group 1 New Westminster District Plan 55

PID: 011-458-526

as shown on the map in Schedule A of this Bylaw.

### 3. Attachments and Schedules

- 3.1 The following schedules are attached to and form part of this Bylaw:

- Schedule A – Location Map.

### 4. Severability

- 4.1 If a portion of this Bylaw is found invalid by a court, it will be severed and the remainder of the Bylaw will remain in effect.

**Read a first time** this \_\_\_ day of \_\_\_\_, 2022.

**Read a second time** this \_\_\_ day of \_\_\_\_, 2022.

**Read a third time** this \_\_\_ day of \_\_\_\_, 2022.

**Adopted** this \_\_\_ day of \_\_\_\_, 2022.

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R. Vagramov  
Mayor

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D. Shermer  
Corporate Officer

I hereby certify that the above is a true copy of Bylaw No. 3350 of the City of Port Moody.

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D. Shermer  
Corporate Officer

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This is a certified true copy of the map referred to in section 2 of City of Port Moody Zoning Bylaw, 2018, No. 2937, Amendment Bylaw No. 67, 2022, No. 3350 (2222 Clarke Street) (RM4).

Map showing the subject property (highlighted in black) located at 2222 Clarke Street. The property is situated between Vintner Street and Clarke Street, and between Douglas Street and Elgin Street. The map also shows Spring Street. A callout indicates the property is to be rezoned from RS1 to RM4.

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### Application Fact Sheet

Applicant:	Mara + Natha Architecture.
Application Type:	Rezoning
Project Description:	A stacked townhouse project consisting of eight stacked townhouse units within two buildings.
Development Permit Area:	<i>Development Permit Area 2: Moody Centre</i>
Application Number:	REZ00020
Address:	2222 Clarke Street
Existing Zoning:	RS1
Proposed Zoning:	RM4
Existing OCP Designation:	Multi-Family Residential
Proposed OCP Designation:	No Change
Site Conditions:	<p>The subject property is approximately 20m (66ft) wide by 40m (132ft) deep with a total area of 809m<sup>2</sup> (8,710ft<sup>2</sup>). The subject property is currently occupied with a single family dwelling with driveway access from Clarke Street, shared with the neighbouring property to the west, as well as driveway access from Vintner Street. An unmapped watercourse (Ottley Creek) is located on the adjacent property to the west.</p>
Surrounding Development:	<p>Surrounding development consists of:</p> <ul style="list-style-type: none"><li>• North: Vacant General Industrial (M2) lot;</li><li>• East: Single Detached Residential (RS1) lot with two heritage buildings and two accessory buildings;</li><li>• South: A mix of Single Detached Residential (RS1) lots and Adaptive Commercial (C6) lots; and</li><li>• West: Single Detached Residential lot (RS1) with developed single family dwelling.</li></ul>

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### Zone Comparison:

	<b>RM4 Regulations</b>	<b>Proposed Development</b>
Density	Maximum 1.25 FAR with underground parking	1.24
Lot Coverage	Maximum 40%	43%
Front Lot Line Setback	Minimum 4.0m	4.0m
Side Lot Line Setbacks	Minimum 2.0m	2.0m
Rear Lot Line Setback	Minimum 3.0m	5.0m
Residential Parking Stalls	12	13
Visitor Parking Stalls	2	2
Common Amenity Space	5m <sup>2</sup> per dwelling unit	12.6m <sup>2</sup> per dwelling unit

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## LOCATION MAP - 2222 Clarke Street

 **SUBJECT PROPERTY**

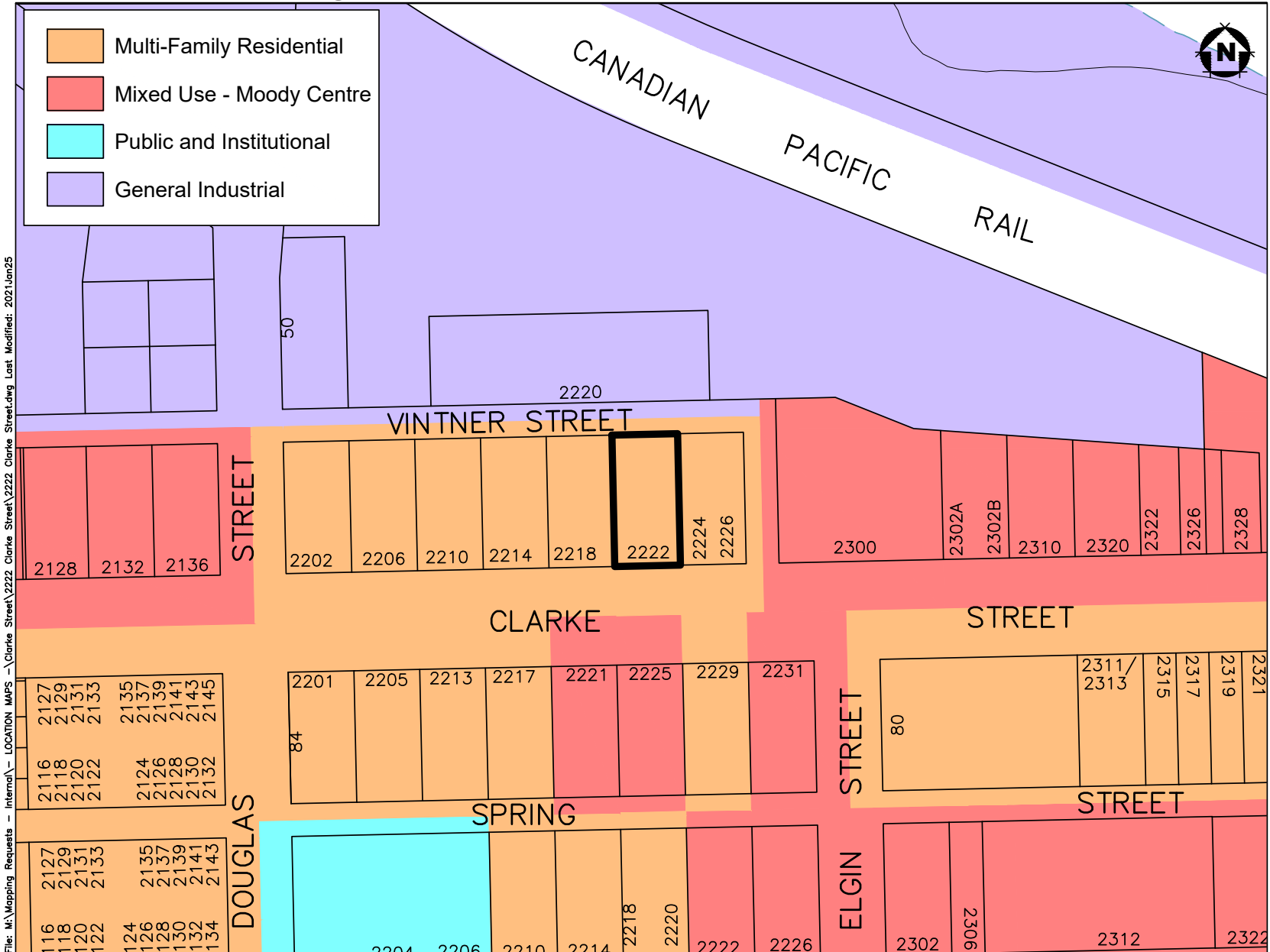


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## OCP Land Use Designations - 2222 Clarke Street

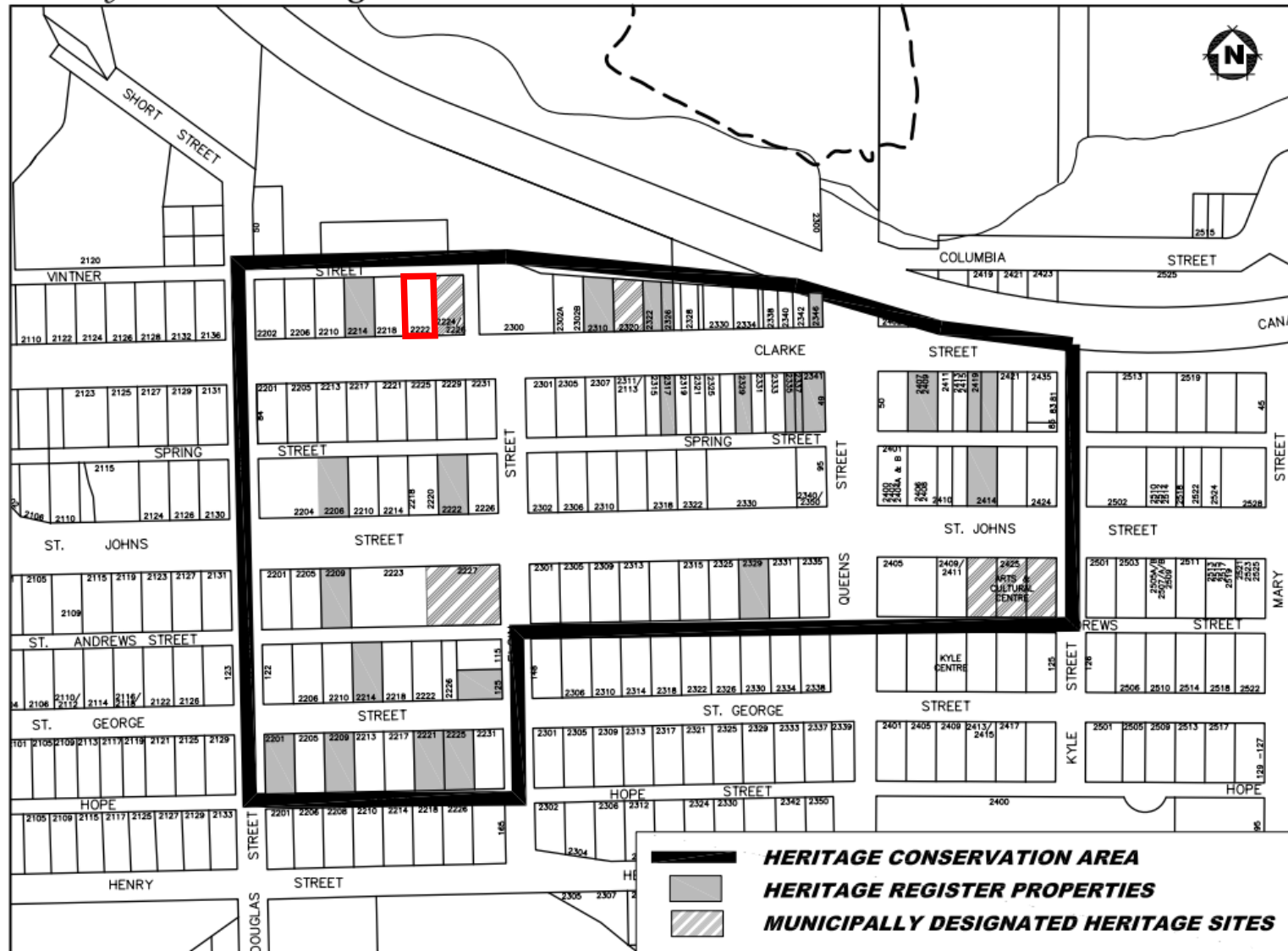
 **SUBJECT PROPERTY**



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## Moody Centre Heritage Conservation Area





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PROPOSED 8 UNIT TOWNHOME DEVELOPMENT

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23		15		7		VINTNER LANDING	2222 CLARKE STREET	TITLE PAGE	A100		
22		14		6		8-UNIT TOWNHOME	PORT MOODY, B.C.		210905		
21		13		5		DEVELOPMENT			SEPTEMBER 2021		
20		12		4	REQUIRED FOR SUBMITTING 2	MAY 9 2022					
19		11		3	REQUIRED FOR EARLY INPUT COUNCIL	FEB 9 2022					
18		10		2	PREL ACCESS PLAN	NOV 20 2021					
17		9		1	REQUIRED FOR SUBMITTING	NOV 3 2021					

# Considered at the Regular Council Meeting of May 10, 2022

425



1 Context Plan  
3/4" = 1'-0"

## CLARKE STREET



2210 CLARKE ST



2218 CLARKE ST



2222 CLARKE ST



2224 CLARKE ST [ HERITAGE ]



2226 CLARKE ST [ HERITAGE ]

## VINTNER STREET



2226 VINTNER ST [ HERITAGE ]



2224 VINTNER ST [ HERITAGE ]



2222 VINTNER ST



2214 VINTNER ST



2210 VINTNER ST

24		16		8	
23		15		7	
22		14		6	
21		13		5	
20		12		4	REQUEST FOR SUBMITTAL 2
19		11		3	REQUEST FOR EARLY INPUT COUNCIL
18		10		2	PRELIMINARY PLAN
17		9		1	REQUEST FOR SUBMITTAL

Project Name:  
VINTNER LANDING  
8-UNIT TOWNHOME  
DEVELOPMENT

Project Address:  
2222 CLARKE STREET  
PORT MOODY, B.C.

Sheet Name:  
SITE CONTEXT

Sheet No.  
A101  
Project No.  
210905  
Start of Project  
SEPTEMBER 2021

SIGN & SEAL

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Web: www.marranarch.com  
ABC, AAA, SAA

Considered at the Regular Council Meeting of May 10, 2022

426



RENDERING - 1. VIEW FROM CLARKE STREET

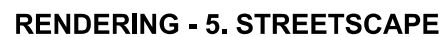
24		10		8		Project Name:	VINTNER LANDING 8-UNIT TOWNHOME DEVELOPMENT	Project Address:	2222 CLARKE STREET PORT MOODY, B.C.	Sheet Name:	RENDERING - 1	Sheet No.	A102	<div>These plans are COPYRIGHTED and ALL RIGHTS ARE RESERVED. No reproduction or reuse of these plans in any form is permitted without the express written consent of MARA + NATHA ARCHITECTURE LTD. and may not be reproduced without written consent.</div> <div>It is the responsibility of the Owner and General Contractor to verify all dimensions and site conditions prior to commencement of work and they shall verify the accuracy of any errors, omissions or discrepancies. Any work constructed without reference to these plans shall be the full responsibility of the Owner and General Contractor.</div> <div>MARA + NATHA ARCHITECTURE LTD. 202 - 2414 St. Johns Street, Port Moody B.C. V3H 2B1 O: 604.426-2233 C: 604.979-4413 Email: roh@maraarch.com Web: www.maraarch.com ABC, AAA, SAA</div>
23		9		7		1	DESIGN FOR CONSTRUCTION	NOV 3 2021				Project No.	210905	
22		8		6		2	PRELIMINARY ACCESS PLAN	NOV 20 2021				Start of Project	SEPTEMBER 2021	
21		7		5		3	DESIGN FOR EARLY INPUT COUNCIL	FEB 9 2022						

## 427



14		16		18		20		22		24		26		28		30		32		34		36		38		40		42		44		46		48		50		52		54		56		58		60		62		64		66		68		70		72		74		76		78		80		82		84		86		88		90		92		94		96		98		100		102		104		106		108		110		112		114		116		118		120		122		124		126		128		130		132		134		136		138		140		142		144		146		148		150		152		154		156		158		160		162		164		166		168		170		172		174		176		178		180		182		184		186		188		190		192		194		196		198		200		202		204		206		208		210		212		214		216		218		220		222		224		226		228		230		232		234		236		238		240		242		244		246		248		250		252		254		256		258		260		262		264		266		268		270		272		274		276		278		280		282		284		286		288		290		292		294		296		298		300		302		304		306		308		310		312		314		316		318		320		322		324		326		328		330		332		334		336		338		340		342		344		346		348		350		352		354		356		358		360		362		364		366		368		370		372		374		376		378		380		382		384		386		388		390		392		394		396		398		400		402		404		406		408		410		412		414		416		418		420		422		424		426		428		430		432		434		436		438		440		442		444		446		448		450		452		454		456		458		460		462		464		466		468		470		472		474		476		478		480		482		484		486		488		490		492		494		496		498		500		502		504		506		508		510		512		514		516		518		520		522		524		526		528		530		532		534		536		538		540		542		544		546		548		550		552		554		556		558		560		562		564		566		568		570		572		574		576		578		580		582		584		586		588		590		592		594		596		598		600		602		604		606		608		610		612		614		616		618		620		622		624		626		628		630		632		634		636		638		640		642		644		646		648		650		652		654		656		658		660		662		664		666		668		670		672		674		676		678		680		682		684		686		688		690		692		694		696		698		700		702		704		706		708		710		712		714		716		718		720		722		724		726		728		730		732		734		736		738		740		742		744		746		748		750		752		754		756		758		760		762		764		766		768		770		772		774		776		778		780		782		784		786		788		790		792		794		796		798		800		802		804		806		808		810		812		814		816		818		820		822		824		826		828		830		832		834		836		838		840		842		844		846		848		850		852		854		856		858		860		862		864		866		868		870		872		874		876		878		880		882		884		886		888		890		892		894		896		898		900		902		904		906		908		910		912		914		916		918		920		922		924		926		928		930		932		934		936		938		940		942		944		946		948		950		952		954		956		958		960		962		964		966		968		970		972		974		976		978		980		982		984		986		988		990		992		994		996		998		1000	
						Project Name		Project Address		Sheet Name		Sheet No.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																</																																																																																																																																																																																																																																																																																																																																																																																																																															

## 428



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					Project Name	Project Address	Sheet Name	Sheet No.	A104		<div><div><div>These plans are <b>COPYRIGHTED</b> and <b>ALL RIGHTS ARE RESERVED</b>. The reproduction or use of these plans in any form without the written consent of the owner is strictly prohibited. This plan is the design and work of the owner and the owner is not responsible for any errors or omissions. The owner</div></div></div>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												



## OFF STREET PARKING

PROVIDED NUMBER OF PARKING STALLS	=	11 STALLS
		+ 2 ACCESSIBLE STALLS
	=	<u>13 STALLS PROVIDED</u>

**PROVIDED TOTAL NUMBER OF PARKING STALLS = 2 + 13 = 15 STALLS**

**PROVIDED NUMBER OF SHORT TERM BICYCLE PARKING = 6 (AT GROUND LEVEL)**

TOTAL UNIT COUNT = 8 UNITS

UNITS WITHOUT PRIVATE ROOF DECKS TO SHARE THE COMMON AMENITY AREA.

**MARA + NATHA**  
**ARCHITECTURE LTD.**  
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Web: [www.maraarch.com](http://www.maraarch.com)  
AIBC, AAA, SAA

Considered at the Regular Council Meeting of May 10, 2022

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1 AXO - 1 - EAST CORNER OF CLARKE STREET

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21				14			5			<p><b>VINTNER LANDING</b> <b>8-UNIT TOWNHOME</b> <b>DEVELOPMENT</b></p>	<p><b>2222 CLARKE STREET</b> <b>PORT MOODY, B.C.</b></p>	<p><b>3D VIEW - 1</b></p>	Project No.	210905																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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Considered at the Regular Council Meeting of May 10, 2022

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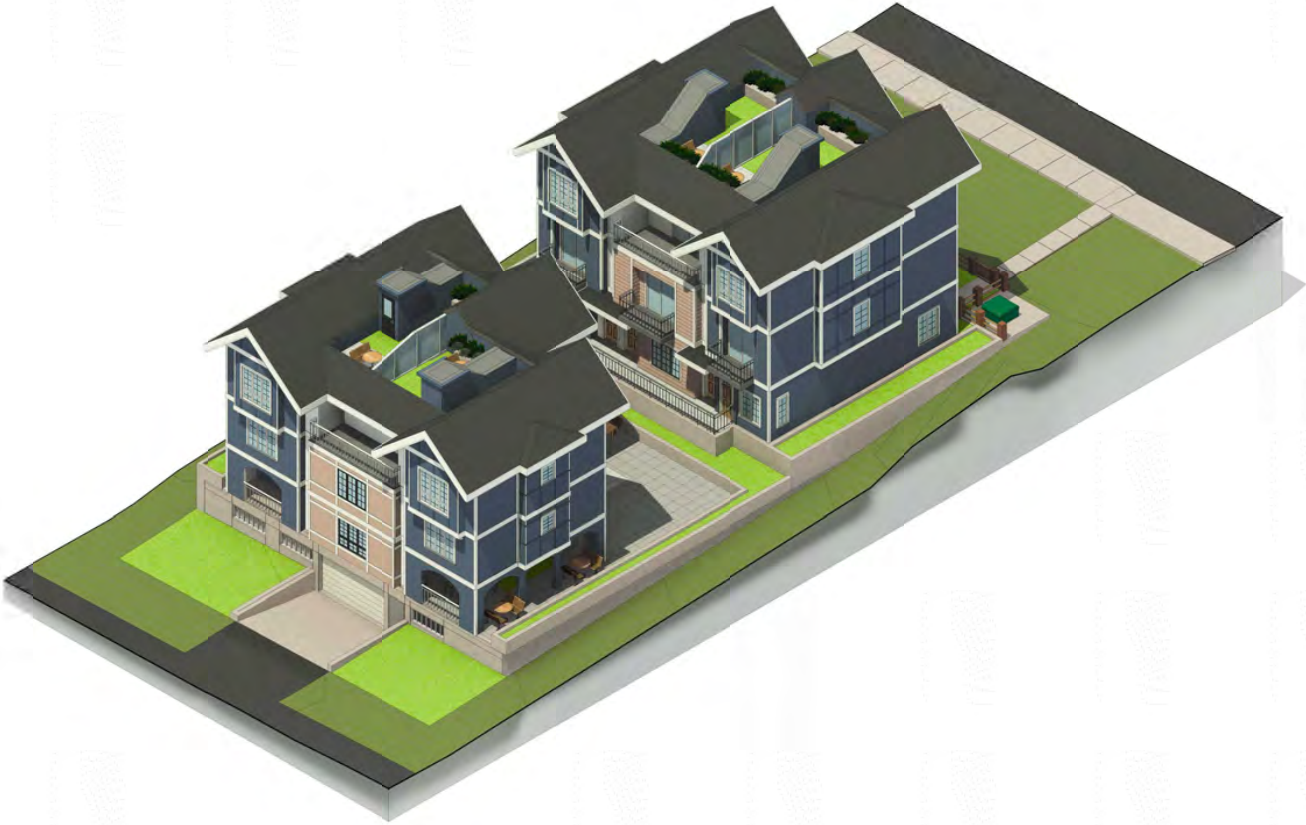


1 AXO - 2 - WEST CORNER OF CLARKE STREET

24		16		8		Project Name	VINTNER LANDING 8-UNIT TOWNHOME DEVELOPMENT	Project Address	2222 CLARKE STREET PORT MOODY, B.C.	Sheet Name	3D VIEW - 2	Sheet No.	A108	<p>These plans are copyrighted and all rights are reserved. The reproduction of these plans in any form, in part or as a whole is strictly prohibited. This plan and design are, and to all times remain the exclusive property of, MARA + NATHA ARCHITECTURE LTD. and may not be reproduced without written consent.</p> <p>It is the responsibility of the Owner and General Contractor to verify all dimensions and site conditions prior to commencement of work and they shall verify the accuracy of any errors, omissions or discrepancies. Any work completed without affecting liability will not constitute an endorsement of the Owner and General Contractor.</p> <p><b>MARA + NATHA ARCHITECTURE LTD.</b> 202 - 2414 St. Johns Street, Port Moody B.C. V3H 2B1 O: 604.426-2233 C: 604.976-4413 Email: roh@maraarch.com Web: www.maraarch.com ABC, AAA, SAA</p>
23		15		7								Project No.	210905	
22		14		6								Start of Project	SEPTEMBER 2021	
21		13		5										
20		12		4	REQUIRED FOR SUBMITTAL 2	MAY 9 2022								
19		11		3	REQUIRED FOR EARLY INPUT COUNCIL	FEB 9 2022								
18		10		2	PRELIMINARY ACCESS PLAN	NOV 20 2021								
17		9		1	REQUIRED FOR SUBMITTAL 1	NOV 3 2021								

Considered at the Regular Council Meeting of May 10, 2022

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1 AXO - 3 - WEST CORNER OF VINTNER STREET 4

24		16		8		Project Name:	VINTNER LANDING 8-UNIT TOWNHOME DEVELOPMENT	Project Address:	2222 CLARKE STREET PORT MOODY, B.C.	Sheet Name:	3D VIEW - 3	Sheet No.:	A109	<p>These plans are COPYRIGHTED and ALL RIGHTS ARE RESERVED. The reproduction of these plans in any form or by any means is strictly prohibited. This plan and design are, and to all times remain the exclusive property of:</p> <p><b>MARA + NATHA ARCHITECTURE LTD.</b> and may not be reproduced without written consent.</p> <p>It is the responsibility of the Owner and General Contractor to verify all dimensions and site conditions prior to commencement of work and they shall verify the accuracy of any work, omissions or discrepancies. Any work completed without architect's knowledge will not constitute an approval of the Owner and General Contractor.</p> <p><b>MARA + NATHA ARCHITECTURE LTD.</b> 202 - 2414 St. Johns Street, Port Moody B.C. V3H 2B1 O: 604.426-2233 C: 604.976-4413 Email: ron@maranarch.com Web: www.maranarch.com ABC, AAA, SAA</p>
23		15		7								Project No.:	210905	
22		14		6								Start of Project:	SEPTEMBER 2021	
21		13		5										
20		12		4	REQUIRED FOR SUBMITTAL 2	MAY 9 2022								
19		11		3	REQUIRED FOR EARLY INPUT COUNCIL	FEB 9 2022								
18		10		2	PRELIMINARY ACCESS PLAN	NOV 20 2021								
17		9		1	REQUIRED FOR SUBMITTAL 1	NOV 3 2021								

Considered at the Regular Council Meeting of May 10, 2022

434

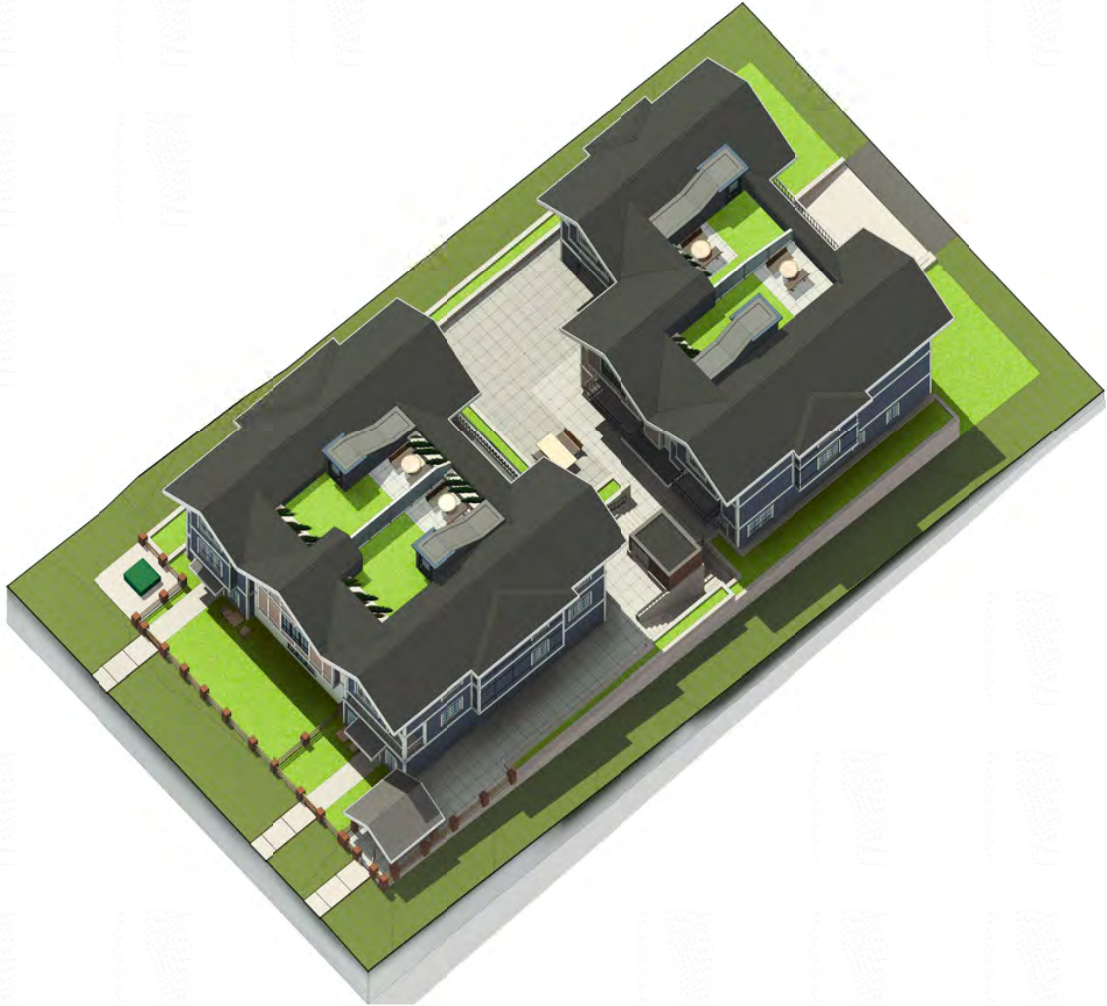


1 AXO - 4 - EAST CORNER OF VINTNER STREET

24		16		8		Project Name	VINTNER LANDING 8-UNIT TOWNHOME DEVELOPMENT	Project Address	2222 CLARKE STREET PORT MOODY, B.C.	Sheet Name	3D VIEW - 4	Sheet No.	A110	<div>These plans are COPYRIGHTED and ALL RIGHTS ARE RESERVED. No reproduction of these plans in any form, in part or as a whole, is strictly prohibited. This plan and design are, and to all times remain the exclusive property of, MARA + NATHA ARCHITECTURE LTD., and may not be reproduced without written consent. It is the responsibility of the Owner and General Contractor to verify all dimensions and site conditions prior to commencement of work, and they shall verify the accuracy of any work, conditions or dimensions. Any work completed without affecting the design, will not constitute an error or defect. The design is the full responsibility of the Owner and General Contractor.</div> <div>MARA + NATHA ARCHITECTURE LTD. 202 - 2414 St. Johns Street, Port Moody B.C. V3H 2B1 O: 604.426-2233 C: 604.976-4413 Email: roh@maraarch.com Web: www.maraarch.com ABC, AAA, SAA</div>
23		15		7								Project No.	210905	
22		14		6								Start of Project	SEPTEMBER 2021	
21		13		5										
20		12		4	REQUIRED FOR SUBMITTING 2	MAY 9 2022								
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18		10		2	PRELIMINARY ACCESS PLAN	NOV 20 2021								
17		9		1	REQUIRED FOR SUBMITTING 1	NOV 3 2021								

Considered at the Regular Council Meeting of May 10, 2022

435

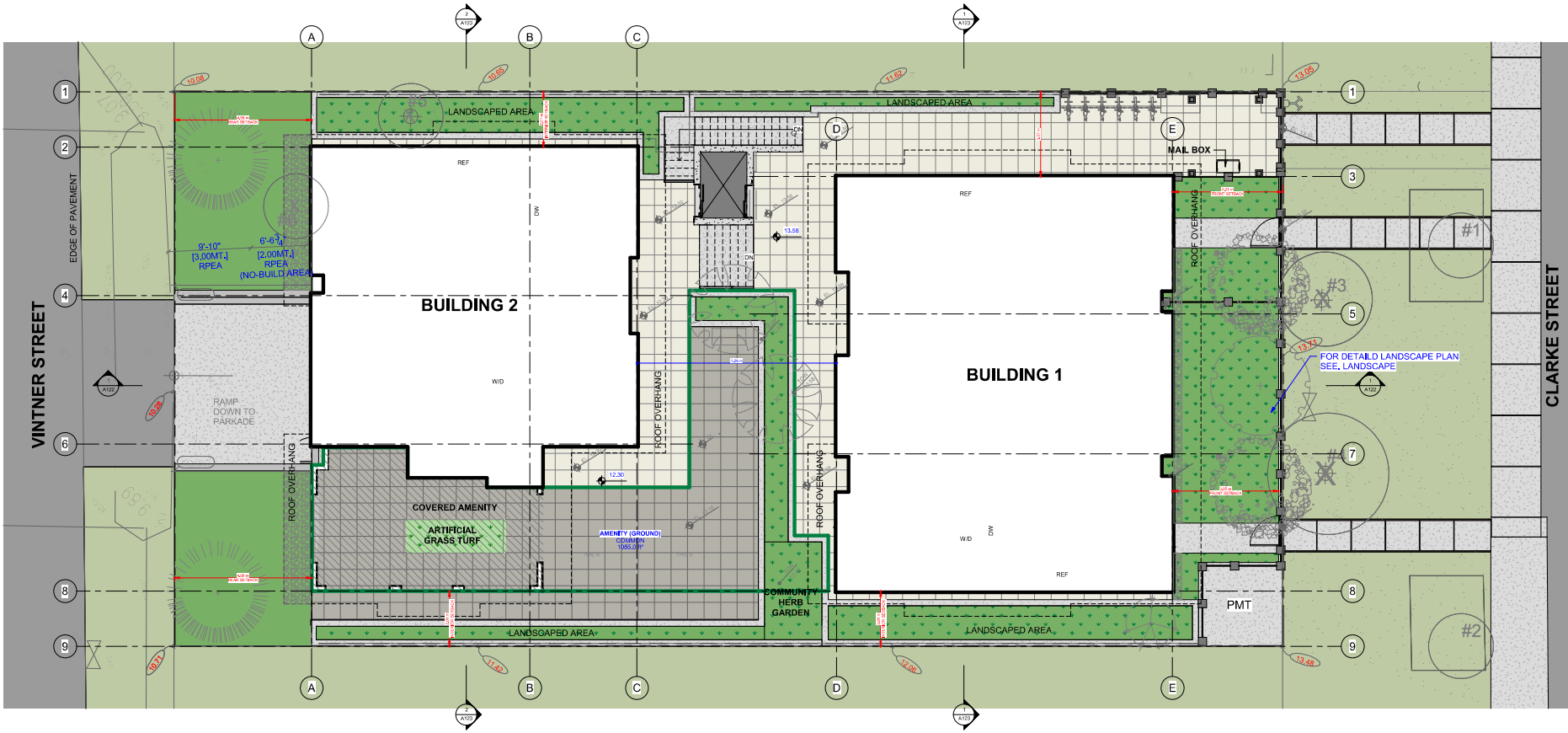


1 AXO - 5 - ROOF TOP AMENITY

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Considered at the Regular Council Meeting of May 10, 2022

436



1 SITE PLAN GROUND LEVEL  
3/16" = 1'-0"

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Project Name:  
VINTNER LANDING  
8-UNIT TOWNHOME  
DEVELOPMENT

Project Address:  
2222 CLARKE STREET  
PORT MOODY, B.C.

Sheet Name:  
SITE PLAN - GROUND  
LEVEL

Sheet No.:  
A112  
Project No.:  
210905  
Date of Project:  
SEPTEMBER 2021

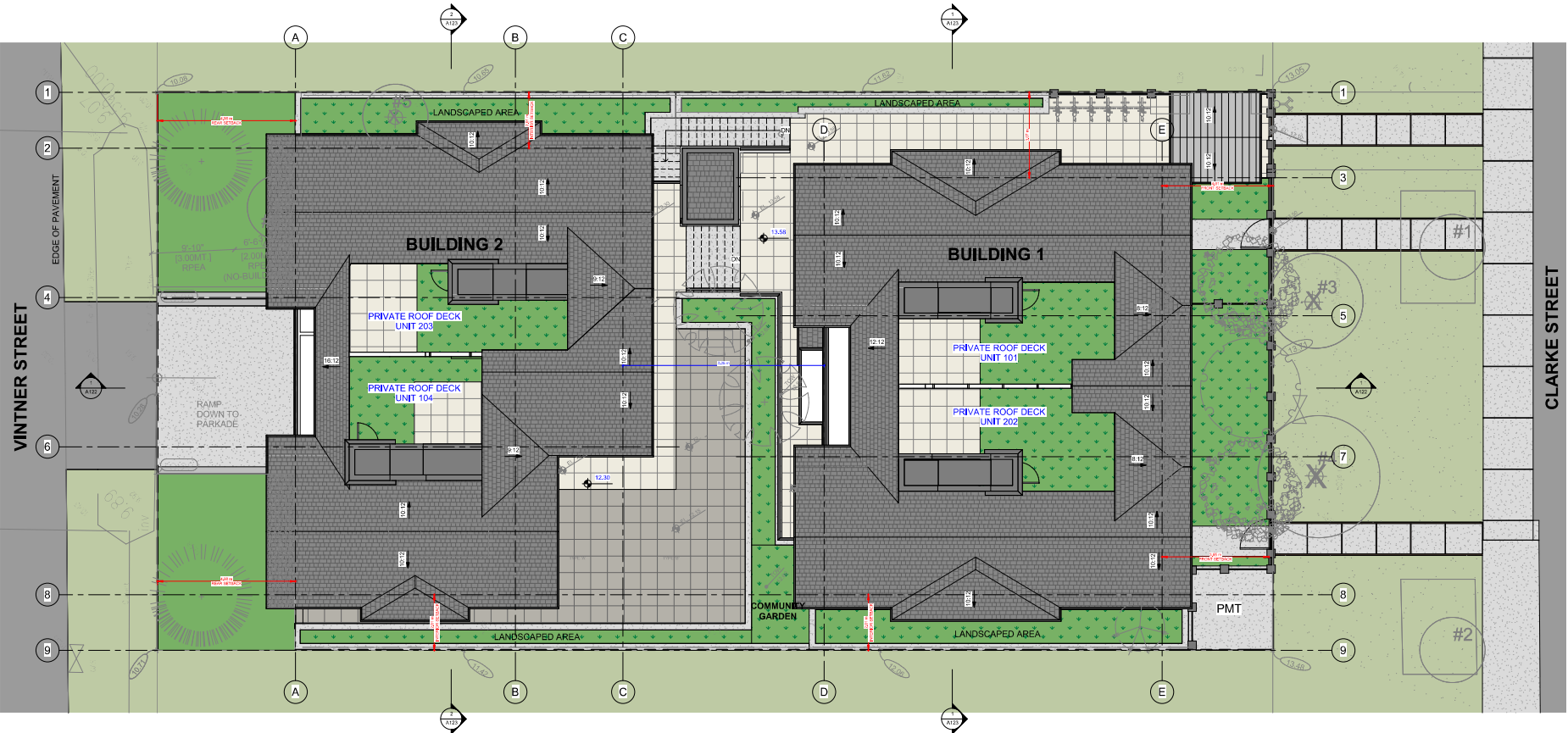
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Web: www.maraarch.com  
ABC, AAA, SAA

Considered at the Regular Council Meeting of May 10, 2022

437



1 SITE PLAN - ROOF LEVEL  
3/16" = 1'-0"

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Project Name:  
VINTNER LANDING  
8-UNIT TOWNHOME  
DEVELOPMENT

Project Address:  
2222 CLARKE STREET  
PORT MOODY, B.C.

Sheet Name:  
SITE PLAN - ROOF  
LEVEL

Sheet No.:  
A113

Project No.:  
210905

Sheet of Project:  
SEPTEMBER 2021

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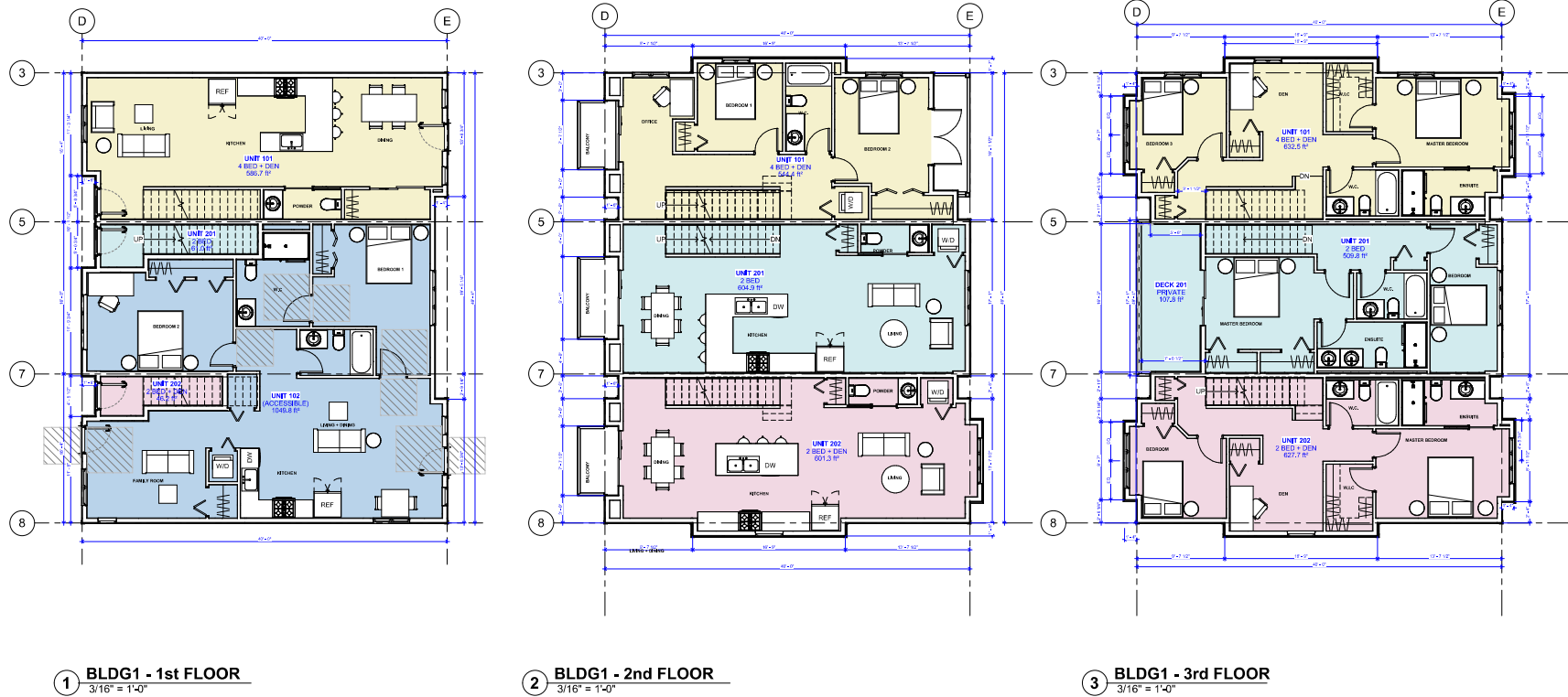
Sheet No.

Project No.

Sheet of Project

# Considered at the Regular Council Meeting of May 10, 2022

438



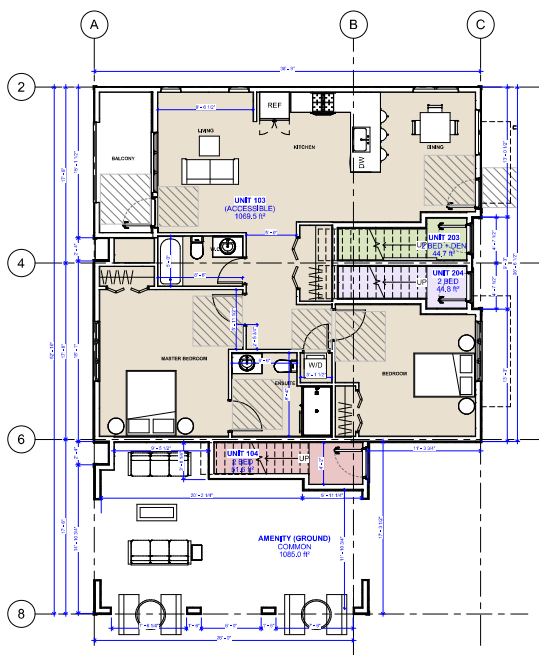
14		16		18		Project Name:	VINTNER LANDING 8-UNIT TOWNHOME DEVELOPMENT	Project Address:	2222 CLARKE STREET PORT MOODY, B.C.	Sheet Name:	BLDG 1 - FLOOR PLAN	Sheet No.:	A114	<small>These plans are COPYRIGHTED and ALL RIGHTS ARE RESERVED. No reproduction of these plans in any form or by any means is strictly prohibited. This plan may contain errors and it is the responsibility of the owner and General Contractor to verify all dimensions and site conditions prior to commencement of work and they shall verify the accuracy of any work, conditions or dimensions. Any work commenced without architect's knowledge will be the responsibility of the Owner and General Contractor.</small>
15		17		19		4. REVISED FOR SUBMITTAL 2	MAY 9 2022			Project No.:	210905			
16		18		20		3. REVISED FOR EARLY INPUT COUNCIL	FEB 8 2022			Sheet of Project:	SEPTEMBER 2021			
17		19		21		2. HIR ACCESS PLAN	NOV 20 2021							



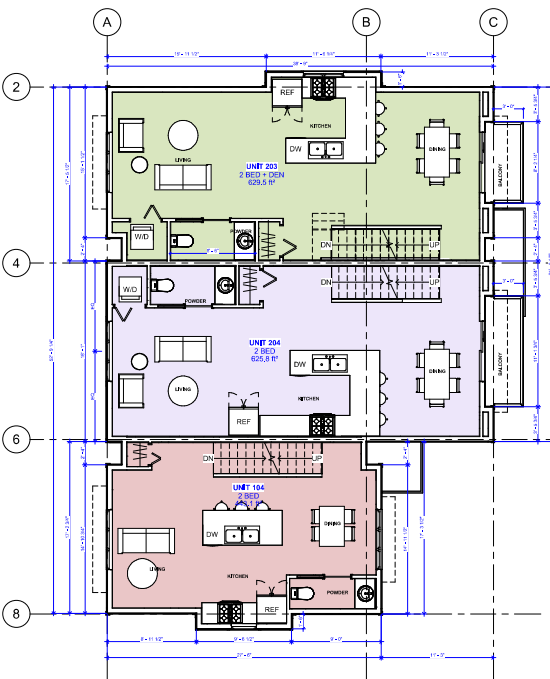
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Considered at the Regular Council Meeting of May 10, 2022

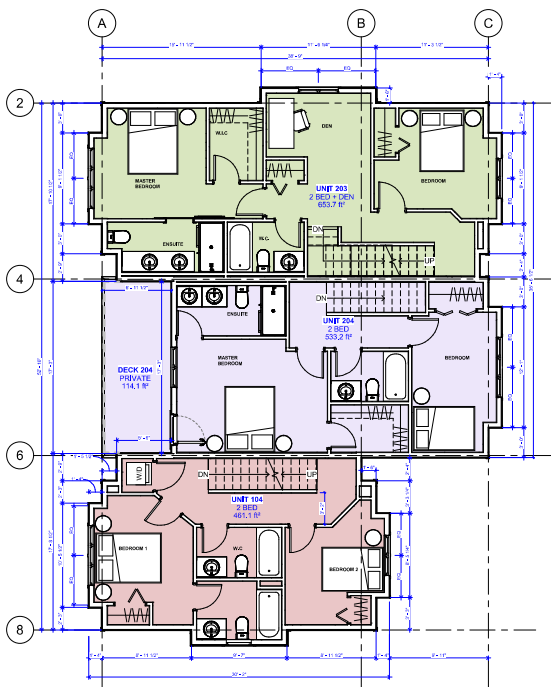
439



3 BLDG2 - 1st FLOOR  
3/16" = 1'-0"



1 BLDG2 - 2nd FLOOR  
3/16" = 1'-0"

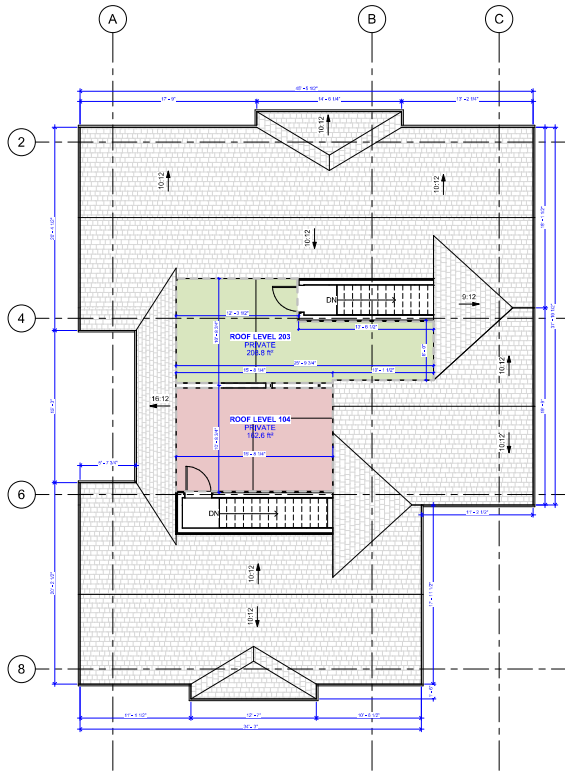


2 BLDG2 - 3rd FLOOR  
3/16" = 1'-0"

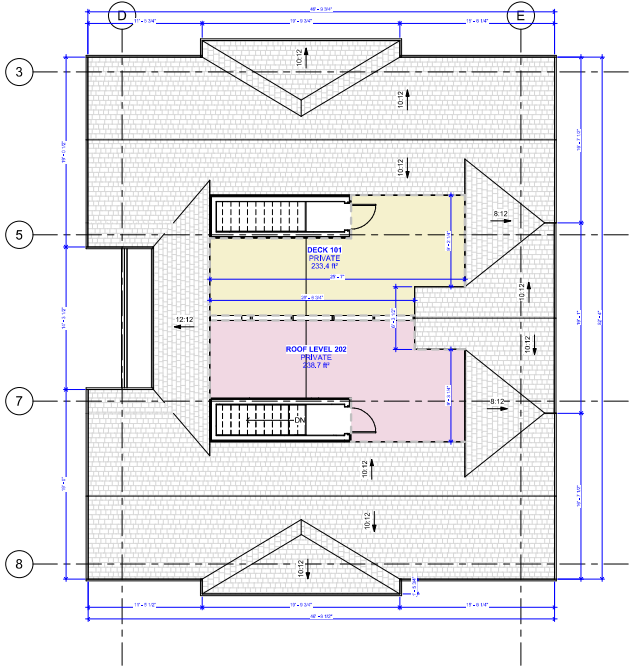
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Considered at the Regular Council Meeting of May 10, 2022

440



2 BLDG2 - ROOF LEVEL  
3/16" = 1'-0"



1 BLDG1 - ROOF LEVEL  
3/16" = 1'-0"

24		16		8			
23		15		7			
22		14		6			
21		13		5			
20		12		4	REVIEW FOR SUBMITTAL 2	MAY 9 2022	
19		11		3	REVIEW FOR EARLY INPUT COUNCIL	FEB 9 2022	
18		10		2	PRELIMINARY PLAN	NOV 20 2021	
17		9		1	REVIEW FOR SUBMITTAL 1	NOV 3 2021	

Project Name:  
**VINTNER LANDING  
8-UNIT TOWNHOME  
DEVELOPMENT**

Project Address:  
**2222 CLARKE STREET  
PORT MOODY, B.C.**

Sheet Name:  
**BLDG 1 & 2 ROOF  
DECK**

Sheet No.:  
**A116**  
Project No.:  
**210905**  
Date of Project:  
**SEPTEMBER 2021**

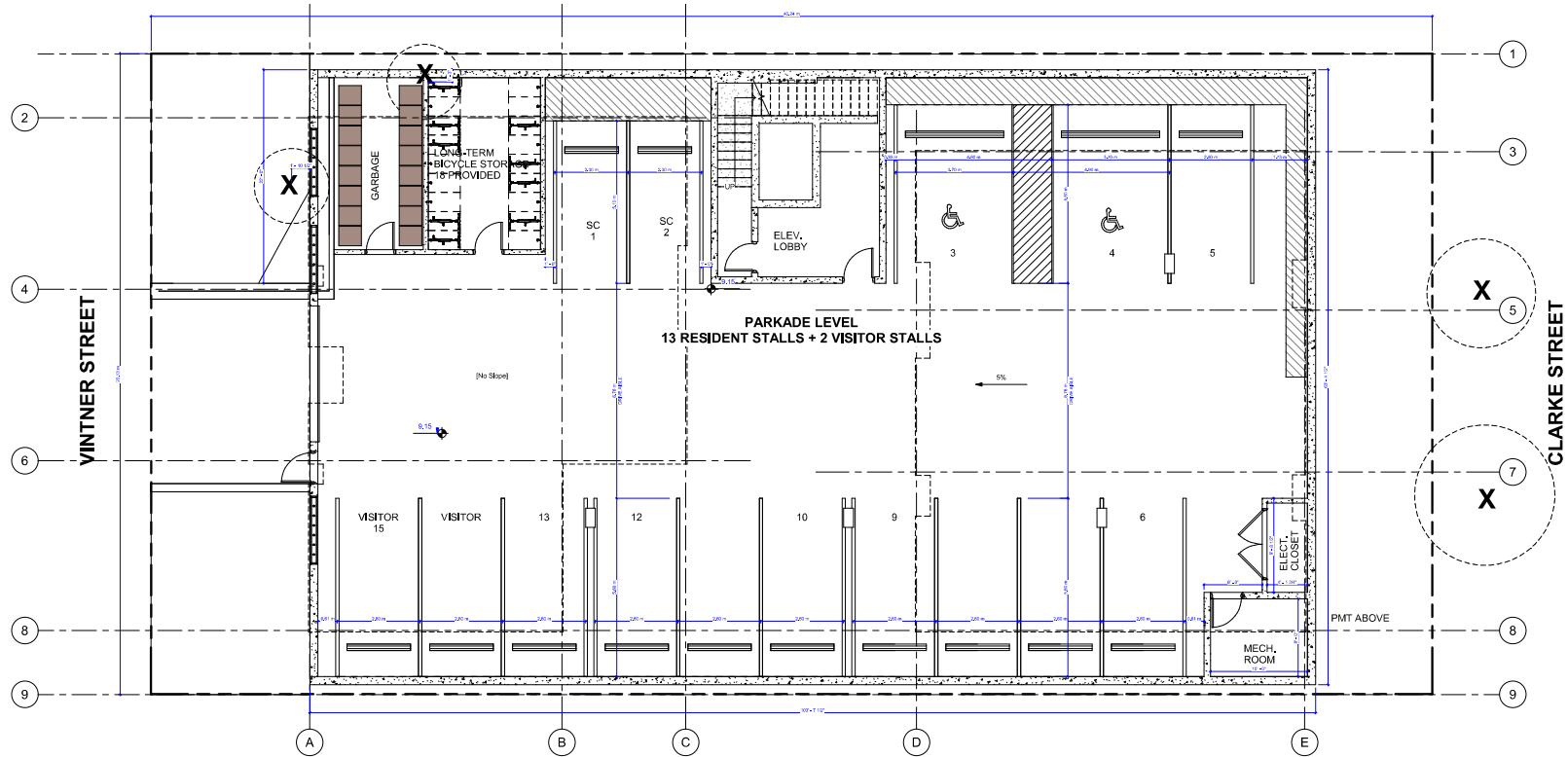
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ABC, AAA, SAA

# Considered at the Regular Council Meeting of May 10, 2022

441



1 0 - PARKADE  
3/16" = 1'-0"

14		16		18	
13		15		17	
12		14		16	
11		13		15	
10		12		14	
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6		8		10	
5		7		9	
4		6		8	
3		5		7	
2		4		6	
1		3		5	

Project Name:  
**VINTNER LANDING  
8-UNIT TOWNHOME  
DEVELOPMENT**

Project Address:  
**2222 CLARKE STREET  
PORT MOODY, B.C.**

Sheet Name:  
**PARKADE**

Sheet No.:  
**A117**

Project No.:  
**210905**

Sheet of Project:  
**SEPTEMBER 2021**

SIGN & SEAL

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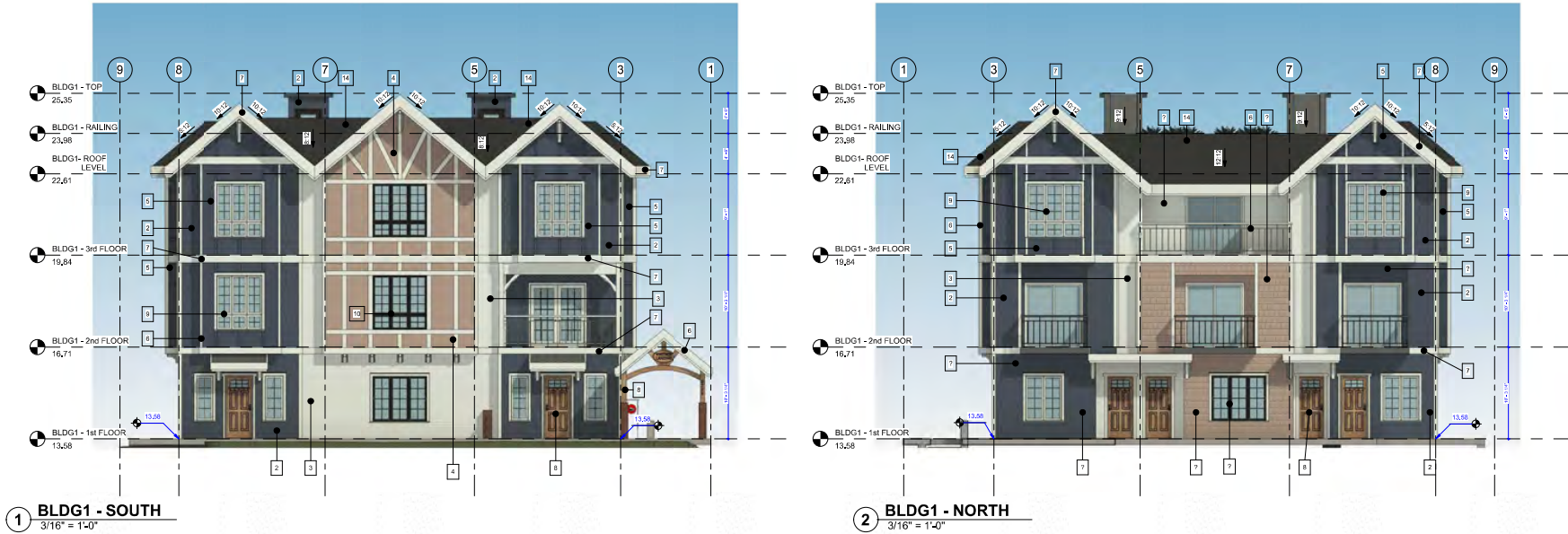
It is the responsibility of the Owner and General Contractor to verify all dimensions and site conditions prior to commencement of work and they shall verify the existence of any services, utilities or obstructions. Any work undertaken without affecting the full responsibility of the Owner and General Contractor.

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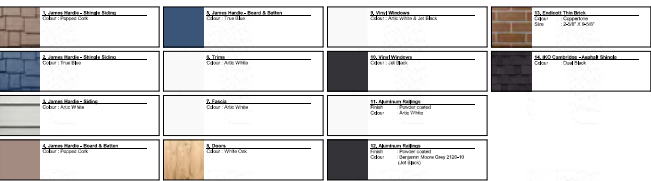


Considered at the Regular Council Meeting of May 10, 2022

442



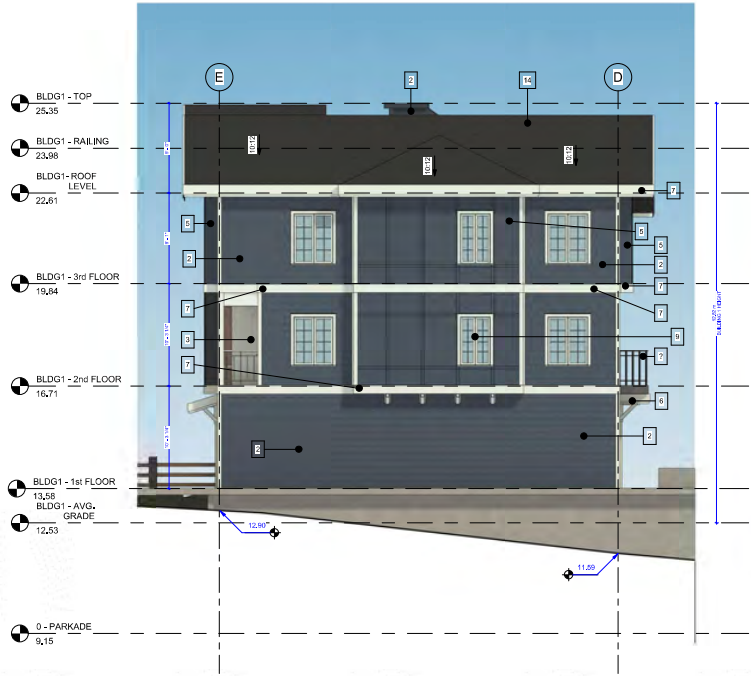
FINISH SCHEDULE


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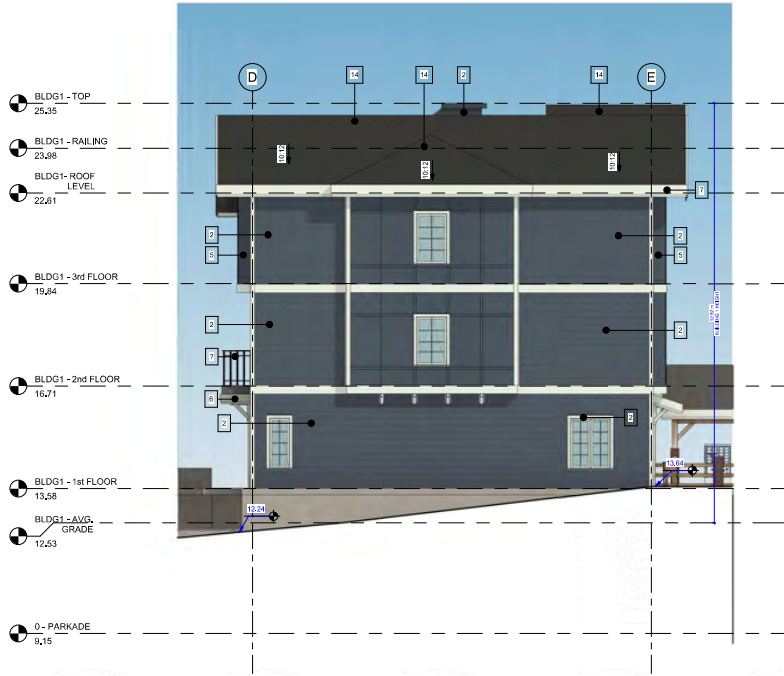
24				16			8		
23				17			7		
22				18			6		
21				19			5		
20				20			4	ISSUED FOR OP SUBMITTAL	MAY 9 2022
19				21			3	ISSUED FOR EARLY DRAFT COUNCIL	FEB 9 2022
18				22			2	FINAL ACCESS PLAN	MAY 20 2021
17				23			1	ISSUED FOR OP SUBMITTAL	MAY 9 2021

Considered at the Regular Council Meeting of May 10, 2022

443



1 BLDG1 - EAST  
3/16" = 1'-0"



2 BLDG1 - WEST  
3/16" = 1'-0"

FINISH SCHEDULE


14		16		8	
13		15		7	
12		14		6	
11		13		5	
10		12		4	REQUIRED FOR SUBMITTAL 2
9		11		3	REQUIRED FOR EARLY INPUT COUNCIL
8		10		2	PRELIMINARY PLAN
7		9		1	REQUIRED FOR SUBMITTAL 1

Project Name: <b>VINTNER LANDING 8-UNIT TOWNHOME DEVELOPMENT</b>	Project Address: <b>2222 CLARKE STREET PORT MOODY, B.C.</b>	Sheet Name: <b>BLDG 1 ELEVATIONS -2</b>	Sheet No. <b>A119</b>	Project No. <b>210905</b>	Sheet of Project <b>SEPTEMBER 2021</b>	These plans are <b>COPYRIGHTED</b> and <b>ALL RIGHTS ARE RESERVED</b> . No reproduction of these plans in any form or by any means is hereby prohibited. This plan and design are, and all items herein, the exclusive property of <b>MARA + NATHA ARCHITECTURE LTD.</b> and may not be reproduced without written consent. It is the responsibility of the Owner and General Contractor to verify all dimensions and site conditions prior to commencement of work and they shall verify the accuracy of any work, conditions or dimensions. Any work completed without architect's knowledge will not constitute an approval of the Owner and General Contractor.	 <b>MARA + NATHA ARCHITECTURE LTD.</b> 202 - 2414 St. Johns Street, Port Moody B.C. V3H 2B1 O: 604.426-2233 C: 604.979-4413 Email: <a href="mailto:info@maranarch.com">info@maranarch.com</a> Web: <a href="http://www.maranarch.com">www.maranarch.com</a> ABC, AAA, SAA
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Considered at the Regular Council Meeting of May 10, 2022

444



FINISH SCHEDULE

<b>1. Exterior - Stone Siding</b> Color: Natural Stone	<b>2. Exterior - Paint &amp; Siding</b> Color: Navy Blue	<b>3. Interior - Paint</b> Color: White	<b>4. Interior - Trim</b> Color: White
<b>5. Exterior - Stone Siding</b> Color: Natural Stone	<b>6. Interior - Paint</b> Color: White	<b>7. Interior - Trim</b> Color: White	<b>8. Interior - Trim</b> Color: White
<b>9. Exterior - Stone Siding</b> Color: Natural Stone	<b>10. Interior - Paint</b> Color: White	<b>11. Interior - Trim</b> Color: White	<b>12. Interior - Trim</b> Color: White
<b>13. Exterior - Paint &amp; Siding</b> Color: Navy Blue	<b>14. Interior - Paint</b> Color: White	<b>15. Interior - Trim</b> Color: White	<b>16. Interior - Trim</b> Color: White

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8		10		12	
7		9		11	

Project Name:  
**VINTNER LANDING  
8-UNIT TOWNHOME  
DEVELOPMENT**

Project Address:  
**2222 CLARKE STREET  
PORT MOODY, B.C.**

Sheet Name:  
**BLDG 2 - ELEVATIONS  
- 1**

Sheet No.:  
**A120**

Project No.:  
**210905**

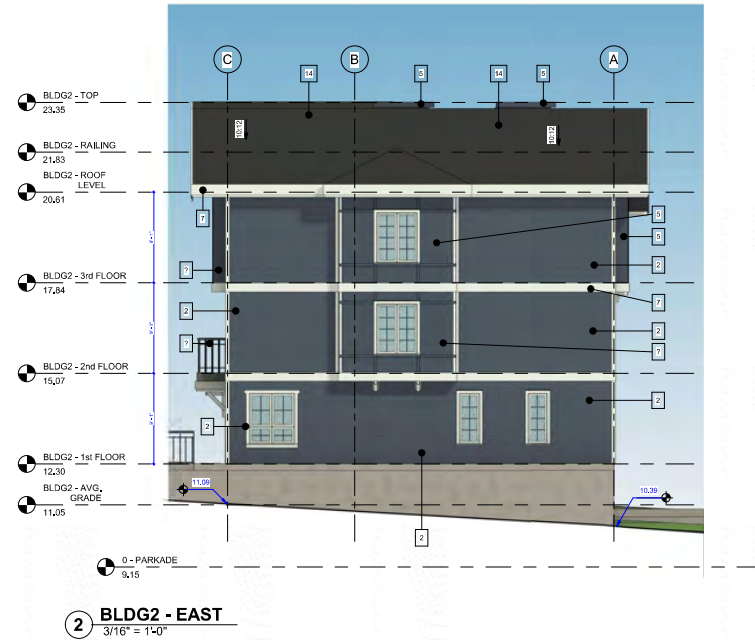
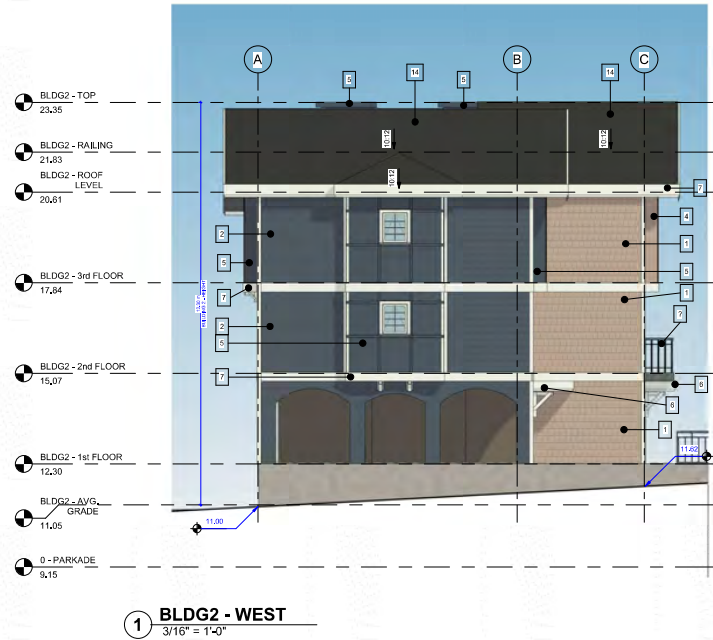
Sheet of Project:  
**SEPTEMBER 2021**

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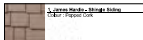
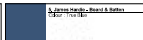
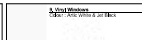
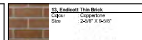
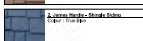


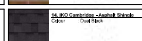








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445



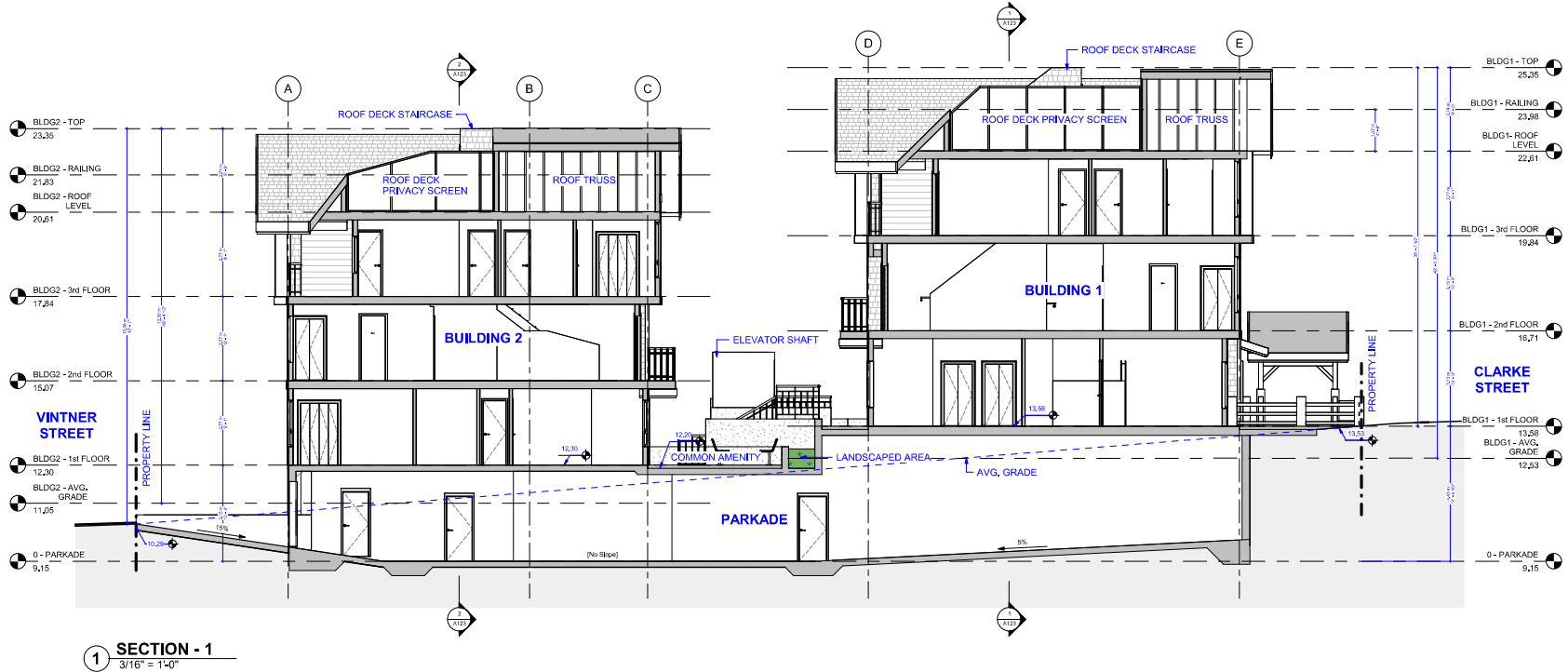
FINISH SCHEDULE

 1/2" x 1" x 12" Brick, Red	 1/2" x 1" x 12" Brick, Dark Blue	 1/2" x 1" x 12" Brick, Light Blue	 1/2" x 1" x 12" Brick, Dark Blue
 1/2" x 1" x 12" Brick, Red	 1/2" x 1" x 12" Brick, Dark Blue	 1/2" x 1" x 12" Brick, Light Blue	 1/2" x 1" x 12" Brick, Dark Blue
 1/2" x 1" x 12" Brick, Red	 1/2" x 1" x 12" Brick, Dark Blue	 1/2" x 1" x 12" Brick, Light Blue	 1/2" x 1" x 12" Brick, Dark Blue
 1/2" x 1" x 12" Brick, Red	 1/2" x 1" x 12" Brick, Dark Blue	 1/2" x 1" x 12" Brick, Light Blue	 1/2" x 1" x 12" Brick, Dark Blue

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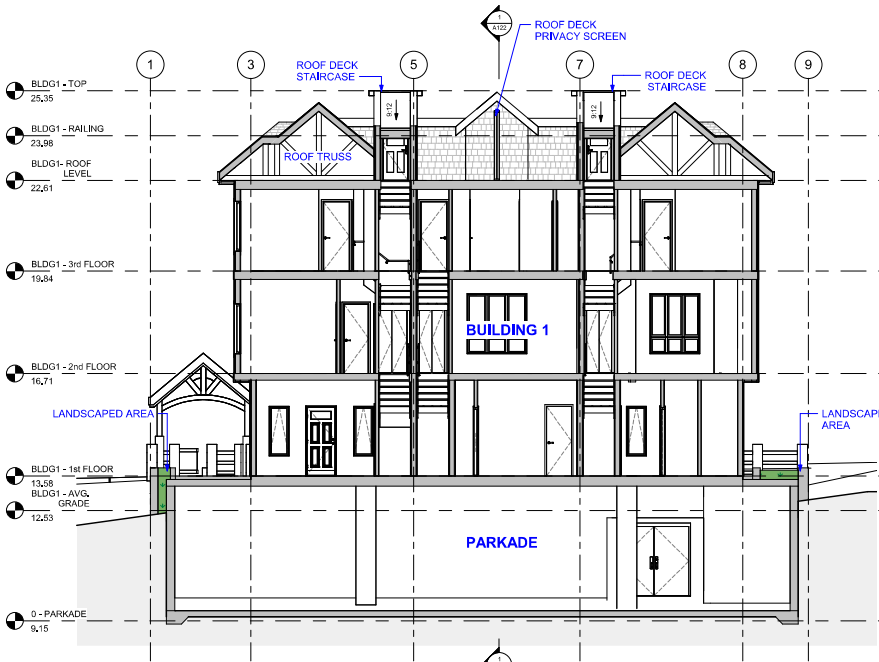
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14		16		8		Project Name:	VINTNER LANDING 8-UNIT TOWNHOME DEVELOPMENT	Project Address:	2222 CLARKE STREET PORT MOODY, B.C.	Sheet Name:	BUILDING SECTION - 1	Sheet No.:	A122	<p>These plans are COPYRIGHTED and ALL RIGHTS ARE RESERVED. No reproduction of these plans in any form or by any means is strictly prohibited. This plan may contain errors and it is the responsibility of the user to verify the accuracy of the information presented.</p> <p>MARA + NATHA ARCHITECTURE LTD. and its affiliates are not responsible for any errors or omissions in these plans. The user assumes full responsibility for the use of these plans.</p> <p>202 - 2414 St. Johns Street, Port Moody B.C. V3H 2B1</p> <p>O: 604.426-2233 C: 604.976-4413 Email: ron@maraarch.com Web: www.maraarch.com ABC, AAA, SAA</p>
13		15		7								Project No.:	210905	
12		14		6								Sheet of Project:	SEPTEMBER 2021	
11		13		5										
10		12		4		DESIGNED FOR SUBMITTAL 2	MAY 9 2022							
9		11		3		DESIGNED FOR EARLY INPUT COUNCIL	FEB 9 2022							
8		10		2		PRELIMINARY PLAN	NOV 20 2021							
7		9		1		DESIGNED FOR SUBMITTAL 1	NOV 3 2021							

Considered at the Regular Council Meeting of May 10, 2022

447



1 SECTION - 2  
3/16" = 1'-0"

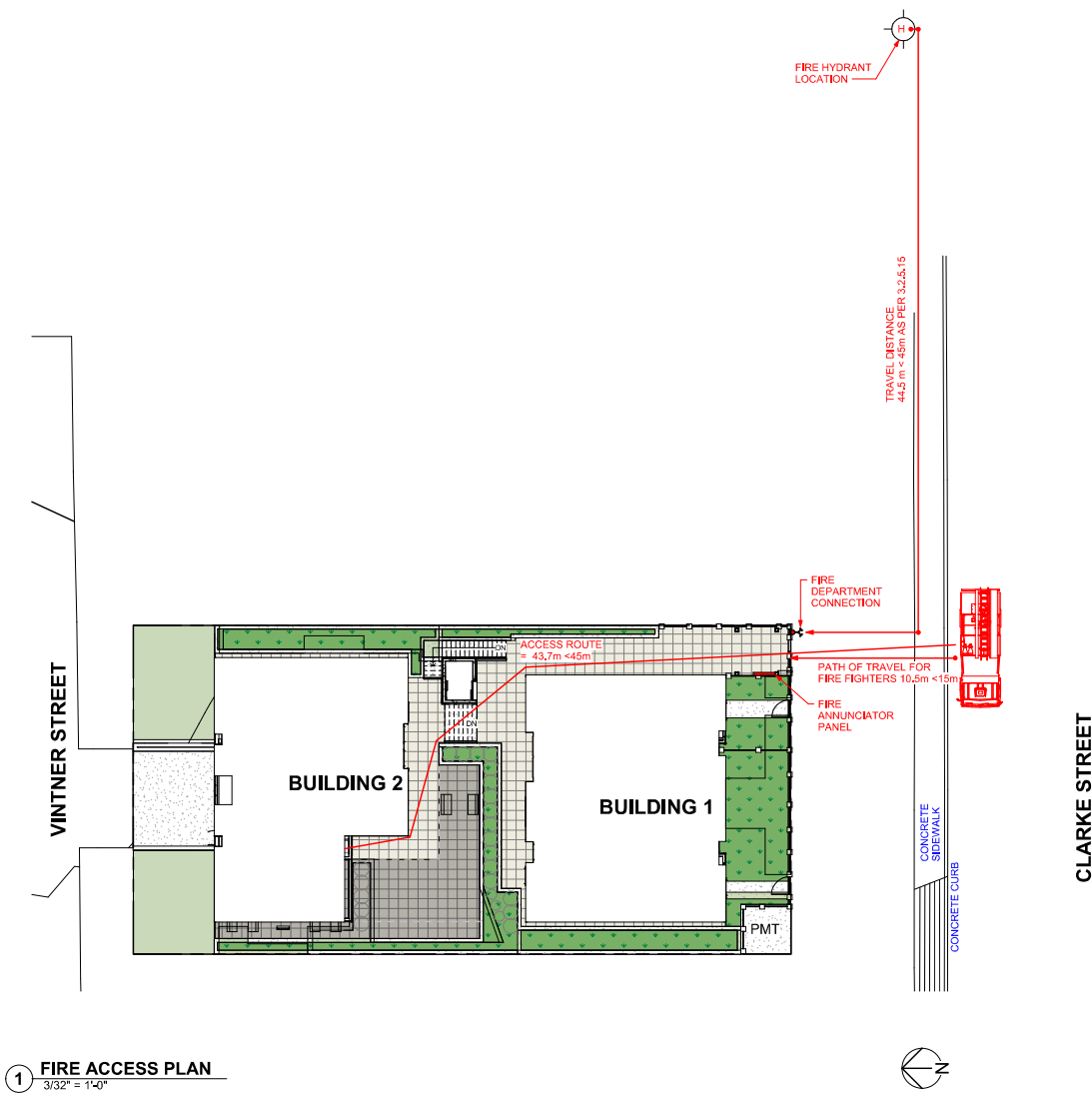


2 SECTION - 3  
3/16" = 1'-0"

24		16		8		Project Name:	VINTNER LANDING 8-UNIT TOWNHOME DEVELOPMENT	Project Address:	2222 CLARKE STREET PORT MOODY, B.C.	Sheet Name:	BUILDING SECTION - 2	Sheet No.:	A123	<p>These plans are COPYRIGHTED and ALL RIGHTS ARE RESERVED. No reproduction of these plans in any form or by any means is strictly prohibited. This plan and design are, and all items herein, the exclusive property of MARRA + NATHA ARCHITECTURE LTD. and may not be reproduced without written consent. It is the responsibility of the Owner and General Contractor to verify all dimensions and site conditions prior to commencement of work and they shall verify the existence of any services, utilities or obstructions. Any work undertaken without architect's knowledge will be the full responsibility of the Owner and General Contractor.</p> <p><b>MARRA + NATHA ARCHITECTURE LTD.</b> 202 - 2414 St. Johns Street, Port Moody B.C. V3H 2B1 O: 604.426-2233 C: 604.979-4413 Email: ron@marranarch.com Web: www.marranarch.com ABC, AAA, SAA</p>
23		15		7		Proposed Name:		Proposed Address:		Sheet No.:		Project No.:	210905	
22		14		6		1	DESIGNED FOR SUBMITTAL	MAY 9 2022		Sheet of Project:	SEPTEMBER 2021			
21		13		5		2	REVIEWED FOR EARLY INPUT COUNCIL	FEB 9 2022						
20		12		4		3	REVIEWED FOR EARLY INPUT COUNCIL	FEB 9 2022						
19		11		3		4	REVIEWED FOR SUBMITTAL	MAY 9 2022						
18		10		2		5	REVIEWED FOR SUBMITTAL	NOV 20 2021						
17		9		1		6	REVIEWED FOR SUBMITTAL	NOV 20 2021						

Considered at the Regular Council Meeting of May 10, 2022

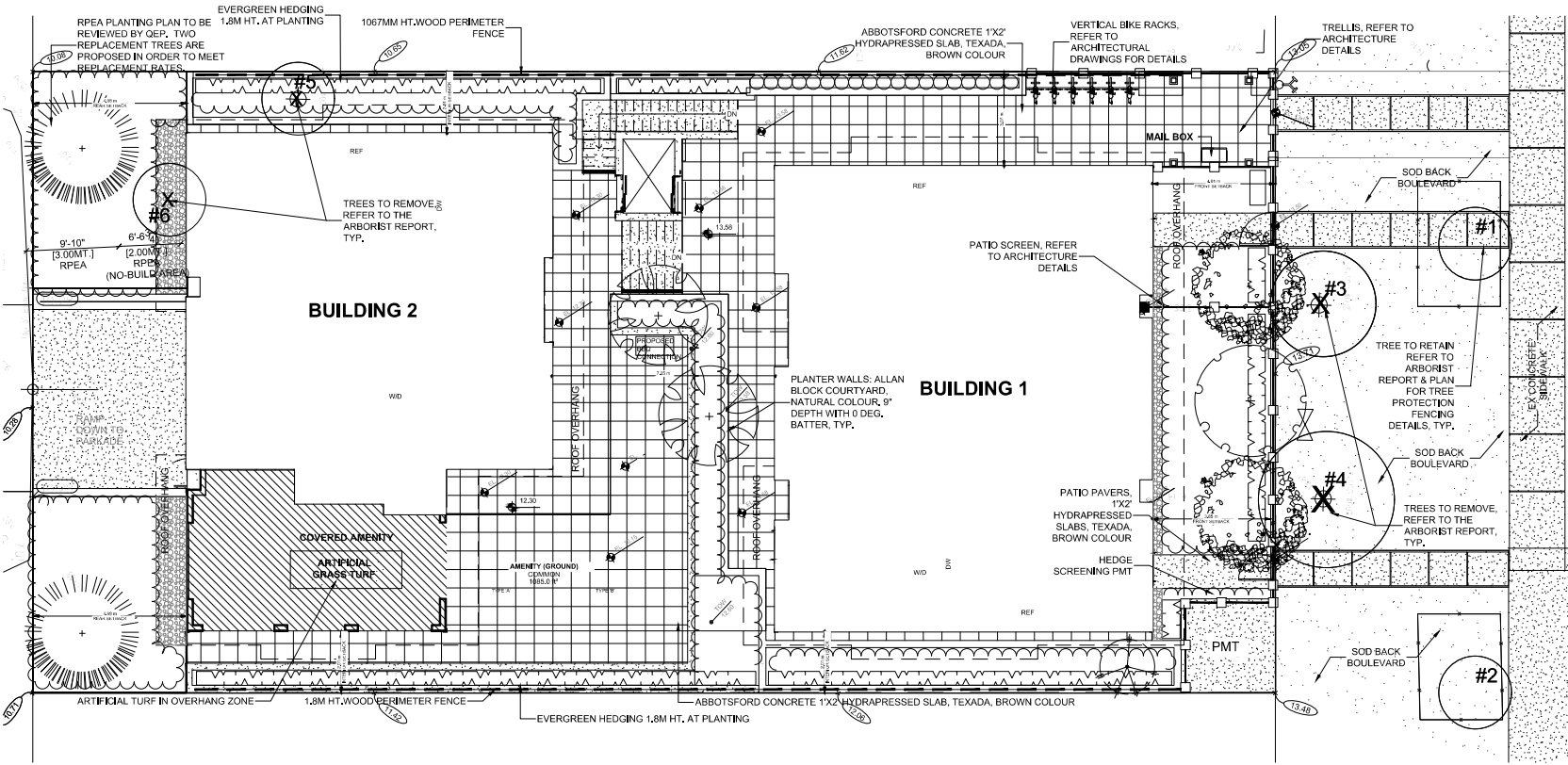
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Revision Schedule		
No	Description	Date
24		
23		
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21		
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16		
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14		
13		
12		
11		
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8		
7		
6		
5		
4	ISSUED FOR SUBMISSION	MAR 2022
3	ISSUED FOR EARLY INFOT COUNCIL	FEB 4 2022
2	FIRE ACCESS PLAN	NOV 22 2021
1	ISSUED FOR SUBMISSION	NOV 3 2021
Project Name		
VINTNER LANDING 8-UNIT TOWNHOME DEVELOPMENT		
Project Address		
2222 CLARKE STREET PORT MOODY, B.C.		
Sheet Name		
FIRE ACCESS PLAN		
Sheet No.		
A124		
Project No.		
210905		
Start of Project		
SEPTEMBER 2021		
SIGN & SEAL		
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It is the responsibility of the Owner and General Contractor to verify all dimensions and site conditions prior to commencement of work and they shall notify the architect of any errors, omissions or discrepancies. Any work completed without architect's knowledge will be the full responsibility of the Owner and General Contractor.		
MARA + NATHA ARCHITECTURE LTD. 202 - 2414 St Johns Street Port Moody B.C. V3H 2S1 O: 604.429-2233 C: 604.979-4413 Email: rob@maraarch.com Web: www.maraarch.com ABC, AAA, SAA		

# Considered at the Regular Council Meeting of May 10, 2022

449



ACER ARMSTRONG



CAREX KOE DANCE



LONICERA PILEATA



OSMANTHUS BURKWOODII



POLYSTICHUM MUNIUM

PLANT SCHEDULE - MAIN LEVEL				PMG PROJECT NUMBER: 18-121	
KEY	QTY	BOTANICAL NAME	COMMON NAME	PLANTED SIZE	REMARKS
TREE	1	ACER CIRCINATUM	WINE MAPLE	6.5CM CAL. BAB. 3 STEM CLUMP	
	2	ACER RUBRUM ARMSTRONG	COLUMBIAN ARMSTRONG MAPLE	7.5CM CAL. 2M STD. BAB	
	2	CHAMAECYPARIS OBUSA 'GRACILE'	SLENDER HINON FALSE CYPRESS	2.5M HT. BAB	
	2	CORNUS KOUSA SATOMI	PINK KOUSA DOGWOOD	6.0CM CAL. 1.5M STD. BAB	
SHRUB	18	BUXUS MICROPHYLLA WINTER GEM	LITTLE-LEAF BOX	#3 POT: 40CM	
	3	LONICERA PILEATA	BOXLEAF HONEYBUCKLE	#2 POT: 30CM	
	2	OSMANTHUS x BURKWOODII	BURKWOODII OSMANTHUS	#2 POT: 30CM	
	101	SARCOCOCOA HOOKERIANA VAR. HUMILIS	HIMALAYAN SWEET BOX	#2 POT: 25CM	
	28	SHRIMP REEVESIANA	DWARF SHRIMP	#2 POT: 20CM	
	61	THILIA OCCIDENTALIS 'SUNRIDGE'	EMERALD-GREEN CEDAR	1.0M HT. BAB	
	3	VACCINIUM OVATUM 'THUNDERBIRD'	EVERGREEN HUCKLEBERRY	#2 POT	
GRASS	79	CAREX OSHIMENSIS 'EVERGOLD'	EVERGOLD JAPANESE SEDGE	#1 POT	
PERENNIAL	1	HELLEBORUS x HYBRIDUS	LENTER ROSE	15CM POT	
	12	HEUCHERA MACRANTHA 'PALACE PURPLE'	CORAL BELLS, PURPLE-RED	15CM POT	
GC	2	ALLIUM SHOENOPRASUM	CHIVES (SHADE TOLERANT HERB)	9 CM POT	
	3	MENTHA PIPERITA	PEPPERMINT (SHADE TOLERANT HERB)	9CM POT	
	3	PETROSELINUM CRISTUM	PARSLEY (SHADE TOLERANT HERB)	9CM POT	
	38	POLYSTICHUM MUNIUM	WESTERN SWORD FERN	#1 POT: 20CM	

NOTES: \* PLANT SIZES IN THIS LIST ARE SPECIFIED ACCORDING TO THE BC LANDSCAPE STANDARD AND CANADIAN LANDSCAPE STANDARD, LATEST EDITION. CONTAINER SIZES SPECIFIED AS PER CANA STANDARD, BOTH PLANT SIZE AND CONTAINER SIZE ARE THE MINIMUM ACCEPTABLE SIZES. \* REFER TO SPECIFICATIONS FOR DEFINED CONTAINER MEASUREMENTS AND OTHER PLANT MATERIAL REQUIREMENTS. \* SEARCH AND REVIEW MAKE PLANT MATERIAL AVAILABLE FOR OPTIMAL REVIEW BY LANDSCAPE ARCHITECT AT SOURCE OF SUPPLY. AREA OF SEARCH TO INCLUDE LOWER MAINLAND AND FRASER VALLEY. \* SUBSTITUTIONS OBTAIN WRITTEN APPROVAL FROM THE LANDSCAPE ARCHITECT PRIOR TO MAKING ANY SUBSTITUTIONS TO THE SPECIFIED MATERIAL. UNAPPROVED SUBSTITUTIONS WILL BE REJECTED. ALLOW A MINIMUM OF FIVE DAYS PRIOR TO DELIVERY FOR REQUEST TO SUBSTITUTE. SUBSTITUTIONS ARE SUBJECT TO BC LANDSCAPE STANDARD AND CANADIAN LANDSCAPE STANDARD - DEFINITION OF CONDITIONS OF AVAILABILITY. \* ALL LANDSCAPE MATERIAL AND WORKMANSHIP MUST MEET OR EXCEED BC LANDSCAPE STANDARD AND CANADIAN LANDSCAPE STANDARD - LATEST EDITION. \* ALL PLANT MATERIAL MUST BE PROVIDED FROM CERTIFIED DISEASE FREE NURSERY. \* BIRDS NOT PERMITTED IN GROWING MEDIUM UNLESS AUTHORIZED BY LANDSCAPE ARCHITECT.

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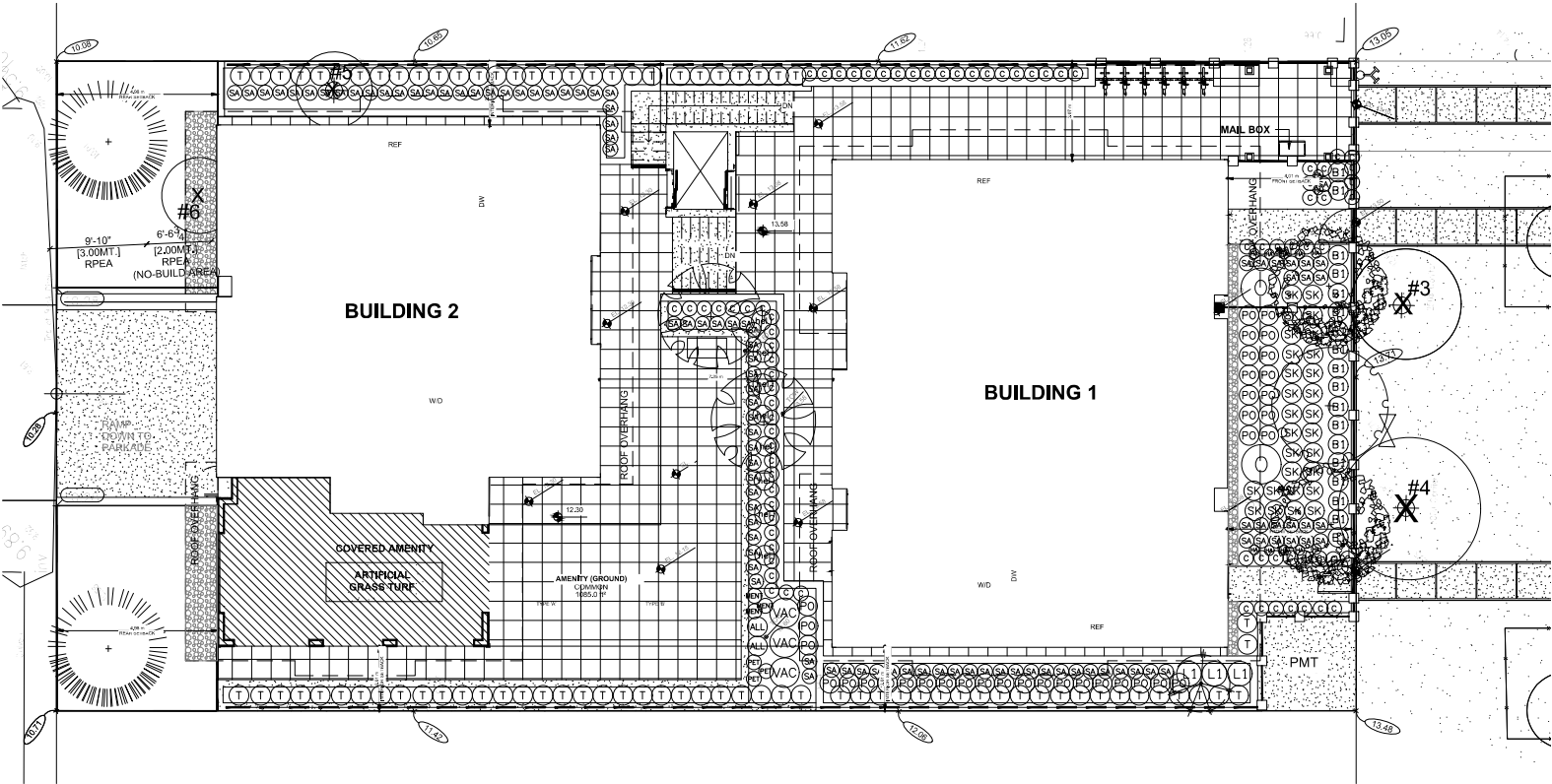
Suite C100 - 4185 58th Creek Drive  
Burnaby, British Columbia, V5C 5G9  
P: 604 294-0311 F: 604 294-0322

SEAL:

18	22 MAY 20	UPDATE PER NEW SITE PLAN	CLG
17	22 MAY 20	UPDATE PER NEW SITE PLAN	CLG
16	21 MAR 20	UPDATE PER DATA DETERMINATIONS	CLG
15	20 MAR 20	UPDATE PER NEW ADDRESS REPORT	CLG
14	20 MAR 20	UPDATE REPAIRER COMMENTS	CLG
13	20 MAR 20	UPDATE OPERATOR REPLACEMENT	CLG
12	19 FEB 20	UPDATE PER NEW SITE PLAN	CLG
11	19 JUN 07	UPDATE DRAIN STOP DETAIL	CLG
10	19 MAR 11	UPDATE AND RESOLVE	CLG
9	18 JUL 12	NEW SITE PLAN	RJ
8	18 JUN 10	DESIGN CONCEPT	CLG
NO.	DATE	REVISION DESCRIPTION	DR.

Considered at the Regular Council Meeting of May 10, 2022

450



PLANT SCHEDULE - MAIN LEVEL				PMG PROJECT NUMBER: 19421
KEY	QTY	BOTANICAL NAME	COMMON NAME	PLANTED SIZE / REMARKS
TREE				
1	1	ACER CIRCINNATUM	VINE MAPLE	6.0CM CAL. BAB: 3 STEM CLUMP
2	1	ACER RUBRUM 'ARMSTRONG'	COLUMNAR ARMSTRONG MAPLE	7.0CM CAL. 2M STD. BAB
3	1	CHAMAECYPARIS OBTUSA 'GRACIOS'	SLENDER-HYUNT FALSE CYPRRESS	2.0M FT. BAB
4	1	CORNUS KOUSA 'SATOUM'	PINK KOUSA DOGWOOD	6.0CM CAL. 1.5M STD. BAB
SHRUB				
18	1	BUXUS MICROPHYLLA 'WINTER GEM'	LITTLE-LEAF BOX	#9 POT, 40CM
19	1	LOISELTERA PILGATEI	SOLELEAF HONEYBUCKLE	#9 POT, 30CM
2	1	OSMANTHUS X BURKWOODII	BURKWOOD OSMANTHUS	#9 POT, 50CM
101	1	SARCOCODON HOOKERIANA VAR. HUMBLE	HIMALAYAN SWEET BOX	#9 POT, 25CM
28	1	SHIMADA KNEEDS-BANA	DWARF SHIMADA	#9 POT, 25CM
81	1	THUJA OCCIDENTALIS 'EMERALD'	EMERALD GREEN CEDAR	1.8M HT. BAB
3	1	VACCINIUM OVATUM 'THUNDERBERRY'	EVERGREEN HUCKLEBERRY	#9 POT
GRASS				
78	1	CAREX OSHIMENBIS 'EVERGOLD'	EVERGOLD JAPANESE SEDGE	#1 POT
PERENNIAL				
8	1	HELLEBORUS X HYBRIDUS	LENEN ROSE	15CM POT
12	1	HEUCHERA MACGRANTHA 'PALACE PURPLE'	CORAL BELLS, PURPLE-RED	15CM POT
HERB				
2	1	ALLIUM SHOENOPRASUM	CHIVES (SHADE TOLERANT HERB)	9 CM POT
3	1	MENTHA PIPERITA	PEPPERMINT (SHADE TOLERANT HERB)	9CM POT
3	1	PETROSELINUM CHRISPIUM	FARSLEY (SHADE TOLERANT HERB)	9CM POT
36	1	POLYSTICHUM MUNITUM	WESTERN SWORD FERN	#1 POT, 20CM

NOTES: \* PLANT SIZES IN THIS LIST ARE SPECIFIED ACCORDING TO THE BC LANDSCAPE STANDARD AND CANADIAN LANDSCAPE STANDARD, LATEST EDITION. CONTAINER SIZES SPECIFIED AS PER CANA STANDARD. BOTH PLANT SIZE AND CONTAINER SIZE ARE THE MINIMUM ACCEPTABLE SIZES. \* REFER TO SPECIFICATIONS FOR DESIRED CONTAINER MEASUREMENTS AND OTHER PLANT MATERIAL REQUIREMENTS. \* SEARCH AND REVIEW NAME PLANT MATERIAL AVAILABLE FOR OPTIONAL REVIEW BY LANDSCAPE ARCHITECT AT SOURCE OF SUPPLY. \* AREA OF SEARCH TO INCLUDE LOWER MAINLAND AND FRASER VALLEY. \* SUBSTITUTIONS: OBTAIN WRITTEN APPROVAL FROM THE LANDSCAPE ARCHITECT PRIOR TO MAKING ANY SUBSTITUTIONS TO THE SPECIFIED MATERIAL. UNAPPROVED SUBSTITUTIONS WILL BE REJECTED. ALLOW A MINIMUM OF FIVE DAYS PRIOR TO DELIVERY FOR REQUEST TO SUBSTITUTE. SUBSTITUTIONS ARE SUBJECT TO BC LANDSCAPE STANDARD AND CANADIAN LANDSCAPE STANDARD, DEFINITION OF CONDITIONS OF AVAILABILITY. \* ALL LANDSCAPE MATERIAL AND WORKMANSHIP MUST MEET OR EXCEED BC LANDSCAPE STANDARD AND CANADIAN LANDSCAPE STANDARD LATEST EDITION. \* ALL PLANT MATERIAL MUST BE PROVIDED FROM CERTIFIED DISEASE FREE NURSERY. \* B&B-SOLIDS NOT PERMITTED IN GROWING MEDIUM UNLESS AUTHORIZED BY LANDSCAPE ARCHITECT.

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ARCHITECTS

Suite C100 - 4185 58th Creek Drive  
Burnaby, British Columbia, V5C 6G9  
P: 604 294-0011 F: 604 294-0022

SEAL:

NO.	DATE	REVISION DESCRIPTION	DR.
1	18.FEB.21	ISSUE FOR NEW TOWNHOUSE	DR
2	18.FEB.21	ISSUE FOR NEW TOWNHOUSE	DR
3	18.FEB.21	ISSUE FOR NEW TOWNHOUSE	DR
4	18.FEB.21	ISSUE FOR NEW TOWNHOUSE	DR
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CLIENT:

PROJECT:  
10 UNIT TOWNHOUSE  
DEVELOPMENT  
2222 CLARKE STREET  
PORT MOODY

DRAWING TITLE:  
SHRUB PLANT  
MAIN LEVEL

DATE: 18.FEB.21 DRAWING NUMBER:  
SCALE: 3/16" = 1'-0"  
DRAWN:  
DESIGN:  
CHECK: PCM OF 4

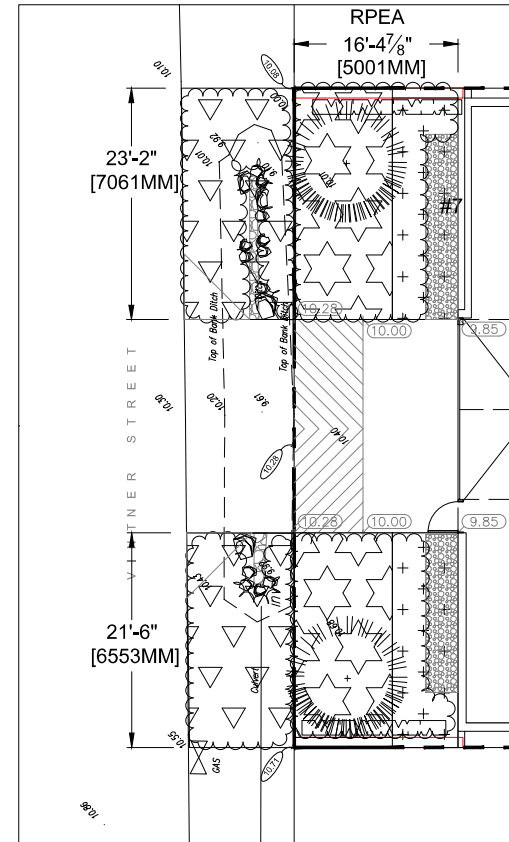
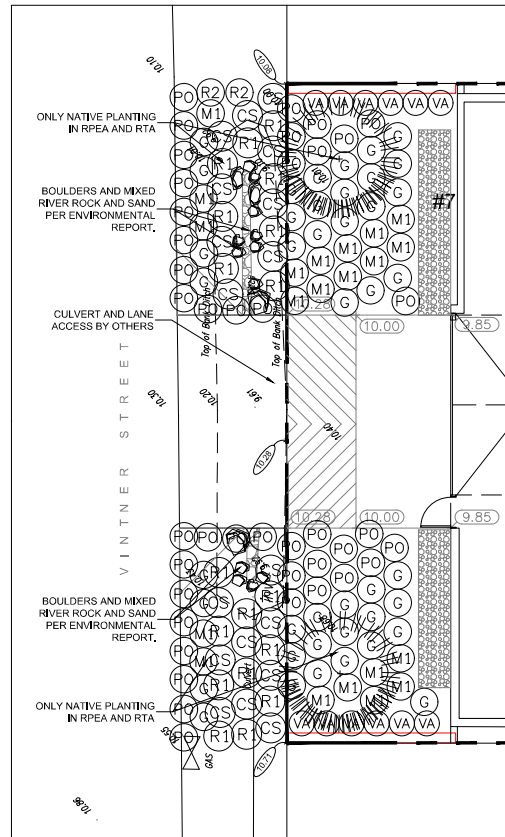
L2

18121-8-2P

PMG PROJECT NUMBER:

18-121

## 451



LEGEND		ENVIRONMENTAL AREA PLANT SCHEDULE - OFFSITE ON LAKE				PWO PROJECT NUMBER: 15-121	
KEY	QTY	QTY	SPECIES NAME	COMMON NAME	PLANTED	SIZE	REMARKS
	BITCH RESTORATION PLANTING = 43,502	SURUB	16	CORNUS SERICEA	RED ODER DOGWOOD		#1 POT, 80CM
			16	MANHATTAN ARJUNUM	OREGON GRAPE		#1 POT, 80CM
	RPA PLANTING = 3,000		16	RUBUS SANDWICHENSIS	RED FLOWERING CURRANT		#1 POT, 80CM
			2	ROSIA DIOICARPA	BALDO		#1 POT, 80CM
	RTA PLANTING = 30,000		2	GAULTHERIA SHALLON	SALAL		#1 POT, 20CM, 100CM QTY
			22	POLYSTICHUM MUNITUM	WESTERN SWOARD FERN		#1 POT, 20CM
<p>NOTES: "PLANT SIZES" IN THIS LIST ARE SPECIFIED ACCORDING TO THE LANDSCAPE STANDARD AND CANADIAN LANDSCAPE STANDARD, LATEST EDITION. CONTAINER SIZES SPECIFIED ARE PER ONA STANDARD. BOTH PLANT SIZE AND CONTAINER SIZE ARE THE MINIMUM ACCEPTABLE SIZES. *REFER TO SPECIFICATIONS FOR DEFINED CONTAINER TYPES AND SIZES AND OTHER SPECIAL REQUIREMENTS. *SEARCH AND RESERVE: SAME PLANT MATERIAL AVAILABLE FOR OPTIMUM PLANTING DATES AND LANDSCAPE ARCHITECT SOURCE OF SUPPLY. AREA OF SEARCH TO INCLUDE LOWER MAINLAND AND PRASER VALLEY. *SUBSTITUTIONS: OBTAIN WRITTEN APPROVAL FROM THE LANDSCAPE ARCHITECT PRIOR TO MAKING ANY SUBSTITUTIONS TO THE SPECIFIED MATERIAL. *SUBSTITUTIONS WILL BE SELECTED, ALLOW FOR PLANTING DATES PRIOR TO THE PLANTING DATES. *FOR REQUEST TO SUBSTITUTE, SUBSTITUTIONS ARE SUBJECT TO THE LANDSCAPE STANDARD AND CANADIAN LANDSCAPE STANDARD, DEFINED OF CONDITIONS OF AVAILABILITY. *ALL LANDSCAPE AND PLANTING MATERIAL SHALL BE OBTAINED FROM CANADIAN STANDARDS AND CANADIAN LANDSCAPE STANDARD. *ALL PLANT MATERIAL MUST BE PROVIDED FROM CERTIFIED DISEASE FREE NURSERY. *BID-CLOSING NOT PERMITTED IN GROWING MEDIA LANSSES AUTHORIZED BY LANDSCAPE ARCHITECT.</p>							

PARKADE LEVEL PLANT SCHEDULE				PWG PROJECT NUMBER: 16-021
#	QTY	BOTANICAL NAME	COMMON NAME	PLANTED SEE / REMARKS
1	2	THUJA PLICATA	WESTERN RED CEDAR	1:24 TH, BAB
2	1	MAHOEUA AQUILIFORMIS	OREGON GRAPE	#3 POT: 50CM
3	1	VACCINIUM OVATUM	DOUGLASS HUBBLEBERRY	#3 POT: 50CM
4	1	GAULTHERIA SP. SHALLOW	SALAL	#3 POT: 20CM, 100CM O.C.
5	19	POLYSTICHUM MUNITUM	WESTERN SWOON FERN	#1 POT: 20CM

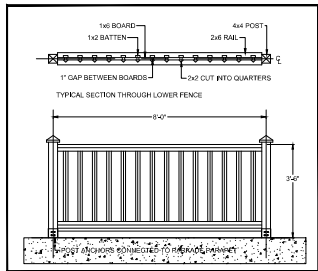
NOTES: \*PLANT SIZES IN LIST ARE CERTIFIED ACCORDING TO THE BC LANDSCAPE STANDARD AND CANADIAN LANDSCAPE STANDARD, LATEST EDITION. CONTAINER SIZES SPECIFIED ARE PER CANA STANDARD. BOTH PLANT SIZE AND CONTAINER SIZE ARE THE MINIMUM ACCEPTABLE SIZES. \*\*REFER TO SPECIFICATIONS FOR DEFINED CONTAINER SIZES AND SPECIFIC MATERIAL REQUIREMENTS. \*\*\*SPECIES AND ITEM NAME PLANT MATERIAL AVAILABLE FOR CERTIFICATION BY THE LANDSCAPE ARCHITECT AS SOURCE OF SUPPLY. AREA OF SEARCH TO INCLUDE LOWER MAINLAND AND FRASER VALLEY. \*SUBSTITUTIONS OBTAIN WRITTEN APPROVAL FROM THE LANDSCAPE ARCHITECT AND SUBMITTING AND SUBSTITUTIONS TO THE SPECIFIED MATERIALS AND SPECIFICATIONS WILL BE REJECTED. ALLOW FOR 5% LOSS OF PLANTS DUE TO DEFECTS FOR REQUEST TO SUBSTITUTE. SUBSTITUTIONS ARE SUBJECT TO BC LANDSCAPE STANDARD AND CANADIAN LANDSCAPE STANDARD-DEFINITION OF CONDITIONS OF GROWTH AND PLANT MATERIAL SPECIFICATIONS. PLANT MATERIAL MUST BE PROVIDED FROM CERTIFIED DISEASE FREE NURSERY. \*BIOLOGIDS NOT PERMITTED IN GROWING MEDIA UNLESS AUTHORIZED BY LANDSCAPE ARCHITECT.

NO.	DATE	REVISION DESCRIPTION	DR.
11	22.MAR.20	UPDATE PER NEW SITE PLAN	CLG
10	21.MAR.20	UPDATE PER NEW SITE PLAN - SUBMISSION	CLG
9	21.MAR.21	UPDATE RPPA DIVISIONS	CLG
8	20.MAR.20	UPDATE PER NEW AIRBORNS REPORT	CLG
7	20.MAR.20	UPDATE RPPA PER COMMENTS	CLG
6	20.MAR.20	UPDATE RPPA/FIRE REPLACEMENT	CLG
5	20.FEB.20	UPDATE PER NEW SITE PLAN	CLG
4	19.JUN.07	UPDATE DRAIN STUFF DETAIL	CLG
3	19.MAR.11	UPDATE AND RESOLVE	CLG
2	18.JUL.12	NEW SITE PLAN	RJ
1	18.JUN.08	DESIGN CONCEPT	CLG

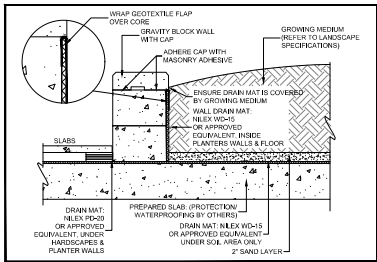
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# Considered at the Regular Council Meeting of May 10, 2022

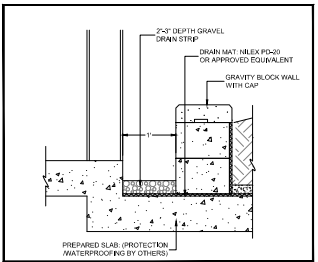
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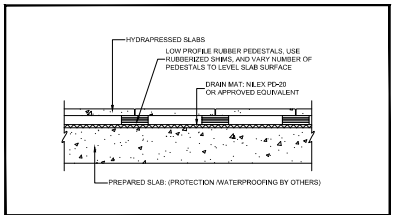
1 1067MM (42") HT. PERIMETER FENCE  
T=1-2



4 PLANTER WALL ON SLAB  
T=1-2



3 DRAIN ROCK STRIP AT BUILDING ON SLAB  
T=1-2



5 HYDRAPRESSED SLABS ON PARKADE STRUCTURE  
T=1-2

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SEAL

NO.	DATE	REVISION DESCRIPTION	DR.
1	22 FEB 21	UPDATE NEW SECTION	COG
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PROJECT:  
**10 UNIT TOWNHOUSE  
DEVELOPMENT**  
**2222 CLARKE STREET  
PORT MOODY**

DRAWING TITLE:  
**LANDSCAPE  
DETAILS**

DATE: 18 FEB 21 DRAWING NUMBER:  
SCALE: 1:500  
DRAWN:  
DESIGN:  
CHECK: PCM  
OF 4

**L4**

# ABC TREE MEN

## CERTIFIED ARBORIST REPORT

**PROJECT LOCATION:**

2222 Clarke St, Port Moody

**PREPARED FOR:**

1156038 B.C. LTD.

**PREPARED BY:**

ABC Tree Men  
8952 15<sup>th</sup> Ave, Burnaby B.C.

April 27, 2018

1<sup>st</sup> revision done on July 18, 2018

Francis R. Klimo  
ISA Certified Arborist  
ISA Certified Tree Risk Assessor  
BC Wildlife Danger Tree Assessor

# Considered at the Regular Council Meeting of May 10, 2022

2222 Clarke St, Port Moody

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## **1.0 SCOPE OF WORK**

ABC Tree Men was contracted by 1156038 B.C. LTD. to conduct and prepare a Tree assessment, Tree management plan, and Arborist report for its location at 2222 Clarke St, Port Moody. The objective of this report is to ensure the proposed development is in compliance with the *City of Port Moody Tree Protection Bylaw No. 2961, 2015*. We were conducting our field inspections on April 27, 2018 at around 10:30am. Our scope of work was to identify all key trees onsite and offsite, assess, document its condition, and recommend actions on removing or retaining the trees in question.

### ❖ **1.1 Limits of assignment**

- Our investigation is based solely on visual inspection of the trees on April 27, 2018 and the analysis of photos taken and tree diagnosis gathered during the inspection.
- Our inspection was conducted from ground level. We did not conduct soil tests or below grade root examination to assess the condition of the root system of the trees.
- We conducted a level 2 assessment.
- Calm cloudy day, no notable adverse weather conditions.

### ❖ **1.2 Purpose and use of the report**

- Meet municipal criteria for development submissions and to provide documentation pertaining to onsite and offsite trees to supplement the proposed development permit application for 2222 Clarke St, Port Moody.

## **2.0 SITE ANALYSIS**

Currently on the property is an existing dwelling that is slated for demolition encompassing on an 800 square meter lot. A new townhouse with an underground parkade will be constructed.

Since the levels of the property are relatively flat runoff water and erosion would not affect neighboring trees and should not be of concern. Substantial grade changes will occur and should be of concern to the health and stability of one neighboring tree. Also, major excavation will be inside several on and offsite trees and its critical root zone. All trees that are located directly within building footprints or other construction zones with high disturbances requirements have been selected for removal.

No presence of bird nesting or any wildlife living in the trees can be identified. We are not qualified environmentalist or Geotechnical engineers, and should therefore be used as anecdotal observations only.



Figure 1. Location of subject site– 2222 Clarke St, Port Moody

### **3.0 TREE ASSESSMENT PROCESS**

Our tree inspection process is a systematic process for accurately identifying and cataloging trees. Using the site survey as a reference to their location and proposed townhouse house plans we have produced accurate findings to our recommendations to ensure proper tree protection during the construction phase and or prescribe removal recommendations.

- **3.1 Health and structure rating**

- 5 - A healthy, vigorous tree, reasonably free of disease, with good structure and form typical of the species.
- 4 - A tree with slight decline in vigor, small amount of twig dieback, minor structural defects that could be corrected.
- 3 - A tree with moderate vigor, moderate twig and small branch dieback, thinning of crown, poor leaf color, moderate structural defects that may be mitigated with care.
- 2 - A tree in decline, epicormics growth, extensive dieback of medium to large branches, significant structural defects that cannot be abated.
- 1 - A tree in severe decline, dieback of scaffold branches and or trunk, mostly epicormic growth; extensive structural defects that cannot be abated.

### **4.0 SUMMARY OF FINDINGS**

On April 27, 2018, ABC Tree Men conducted a site visit and visual inspection. A total of six (6) trees have been identified both offsite and onsite. Of the six (6) trees identified, four (4) are off-site city trees and two (2) trees are located onsite.

Overall, all trees range from fair to good in condition. Trees that were located directly within building footprints or other construction zones with high disturbances requirements were selected for removal.

We observed five (5) types of species of trees located on and offsite: Spruce, Laurel, Maple, Apple, and Western redcedar.

DBH varies from 21cm to 87cm for all trees identified offsite and 91cm to 28cm for trees onsite.

Of the six (6) trees identified, two (2) trees will be retained with tree protection measures implemented and four (4) trees will be removed.

## Considered at the Regular Council Meeting of May 10, 2022

2222 Clarke St, Port Moody

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### 5.0 SITE MAP



## Considered at the Regular Council Meeting of May 10, 2022

2222 Clarke St, Port Moody

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### 6.0 TREE INVENTORY

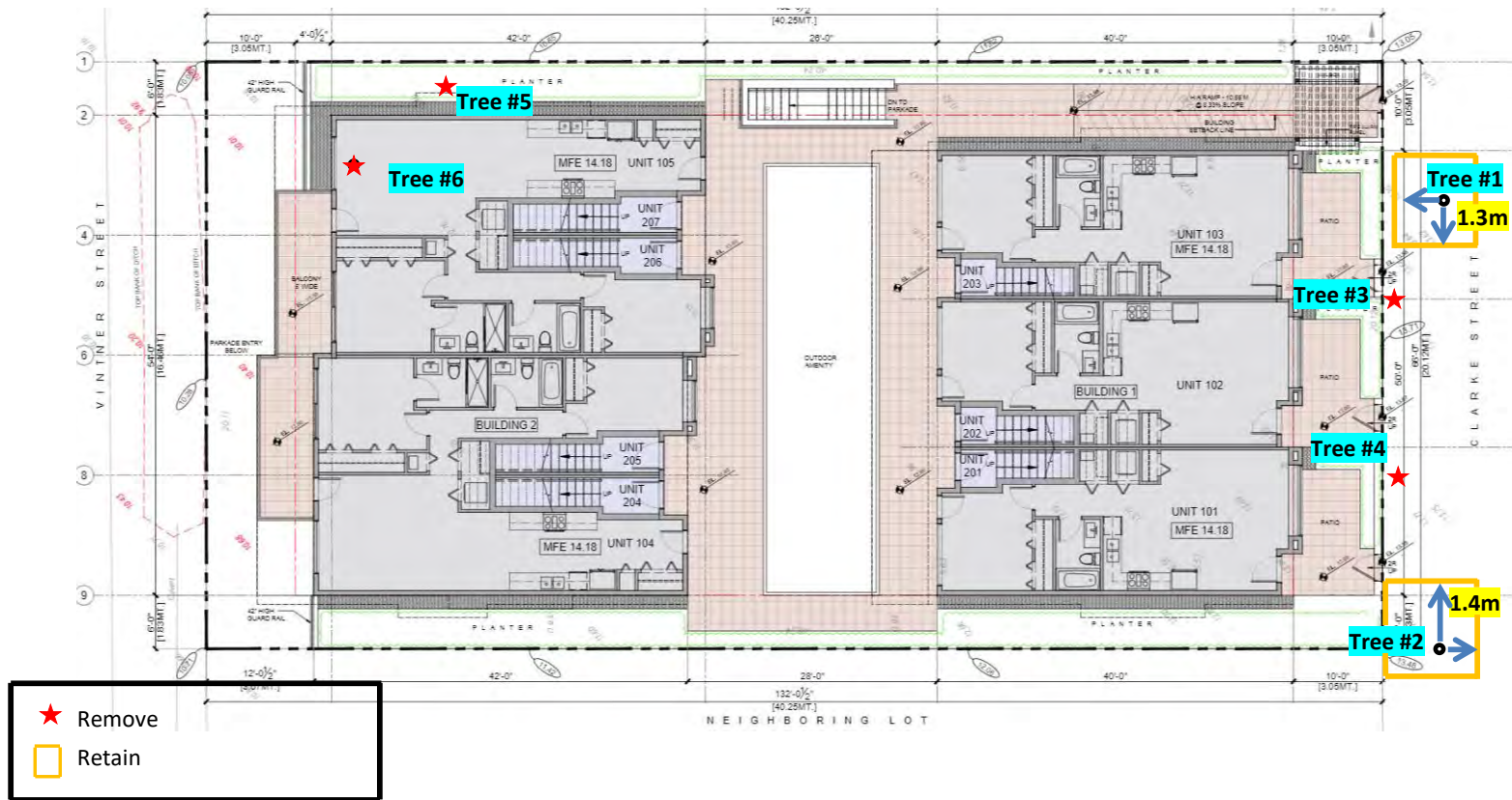
Table 1								
ABC Tree Men								
April 27, 2018								
2222 Clarke St, Port Moody								
Tag #	Name	Species	DBH(cm)	Height(m)	Condition (rating)	Retain or Remove	Comments	TPZ (m)
1	Maple	<i>Acer</i>	21	8	Boulevard tree, located to the front of the lot. Exposed surface roots observed along the TPZ and it seems to have been damaged by the lawnmower. Moderate trunk taper and live crown ratio. Overall, subject tree is in fair to good condition. (4)	Retain	Place tree protection barrier to protect trunk, roots, and structure.	1.3
2	Maple	<i>Acer</i>	23	8	Boulevard tree, located to the front of the lot. Exposed surface roots observed along the TPZ. Located within the driveways. No major defects and or signs of stress. Overall, subject tree is in fair to good condition. (4)	Retain	Place tree protection barrier to protect trunk, roots, and structure. Arborist supervision required during removal of the existing driveway.	1.4
3	Spruce	<i>Picea</i>	29	11	Offsite city tree, located to the front of the lot. Existing retaining wall located within CRZ. Co dominant at 1.8m. Low live crown ratio. Overall, subject tree is in fair to good condition. (4)	Remove	Removal is recommended due to conflicts with the proposed development	1.8
4	Spruce	<i>Picea</i>	35	11	Offsite city tree, located to the front of the lot. Co dominant at 3.0m. One limb protruding from main trunk at 1.2m. Low live crown ratio. Overall, subject tree is in fair to good condition. (4)	Remove	Removal is recommended due to conflicts with the proposed development	2.1
5	Western redcedar	<i>Thuja plicata</i>	91	27	Onsite tree, located to the north eastern side of the lot. Large dominant tree with a multi stemmed top. Large past limb failure with an open wound and dead wood within. Overall, subject tree is in fair to poor condition. (3)	Remove	Removal is recommended due to conflicts with the proposed development	5.5
6	Apple	<i>Malus</i>	28	6	Onsite tree, located to the back of the lot. Poor overall structure and health. Dead wood located throughout the crown. Past pruning cuts. Overall, subject tree is in poor condition. (2)	Remove	Removal is recommended due to conflicts with the proposed development	1.7

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941 E 54th Ave, Vancouver

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## 7.0 TREE MANAGEMENT PLAN



## **8.0 TREE RETENTION/REMOVAL RECOMMENDATIONS**

A total of six (6) trees have been found both on and offsite. Based on the factors that include the pre-existing condition of the subject trees as detailed in the general observations, tree inventory, and the proposed development, trees are proposed to be treated as follows.

### ❖ **Tree retention**

Pursuant to the *City of Port Moody Tree Protection Bylaw No. 2961, 2015* the following trees are recommended for retention as detailed in the report and tree recommendations. Information regarding specific recommendations can be found in the *Tree retention plan recommendations above and section 10.0 Tree Protection barriers*.

- **Tree #1 and #2** will be retained with tree protection measures implemented. Place barriers to specifications and leave during whole construction period and remove when the director has authorized its removal.

### ❖ **Tree removal**

Pursuant to the *City of Port Moody Tree Protection Bylaw No. 2961, 2015* the following trees are recommended for removal as per the following sections or as detailed in the report.

- **Tree #3, #4, #5, and #6** will be removed due to conflicts with the proposed development and falls within the footprint of the building & within zone of heaviest construction & excavation activity.

## 9.0 GENERAL OBSERVATIONS, RECOMMENDATIONS AND PHOTOS



Photo 1. Facing towards the east looking at Tree #1



Photo 2. Facing westwards towards the west looking at tree #2

**Species:** Maple (*Acer*)

**Tree#:** 1, 2

**Observations:** Tree #1 and #2 are both Maples and are located to the front of the lot. Both are boulevard trees. The DBH measures 21cm and 23cm and both have an overall height of about 8m and a crown spread of 5m.

- Observing the crown and structure on both of the subject trees, there are no major concerns of stress or any major defects. Examining the base and surrounding TPZ, exposed surface roots can be observed on both trees. Tree #2 is situated within two driveways and surface roots have travelled along the native soil. Overall, subject trees are in fair to good condition.

**Recommendations:** Tree #1 and #2 will be both retained. Due to the close proximity to the construction site it is required to place tree protection barriers to protect its trunk, roots, and structure. Place barriers to drip line or to measurements outlined in section 10.0. Only removal of the driveway using low impact methods approved by arborist and under supervision should be implemented. Below are the necessary precautions during removal of the driveway:

❖ **Method of removal for driveway and placement of new driveway**

The method of removal is going to be done in a carefully coordinated effort inside the TPZ of the subject tree #2. Only hand tools with the assistance of machinery will be used in the process of removing the existing driveway within the root protection zone, no excavation will go below the grade. During and after the removal process a certified Arborist will be monitoring all activities that will happen around the critical root zone.

# Considered at the Regular Council Meeting of May 10, 2022

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Photo 3. Facing towards the east looking at Tree #3 and #4



Photo 4. Looking at the retaining wall within CRZ of tree #3

**Species:** Spruce (*Picea*)

**Tree#:** 3, 4

**Observations:** Tree #3 and #4 are both Spruces and are located to the front of the lot. Both trees are located on City property. The DBH measures 29cm and 35cm and both have an overall height of about 11m and a crown spread of 4.5m.

- Observing the crown and structure on both of the subject trees, both are co dominant at around 1.8m and 3m. A low live crown ratio on both trees can be examined. While assessing the base and surrounding TPZ, existing hardscapes and structures such as retaining walls and walkways can be observed and will be in conflict during the demolition process. Overall, subject trees are in fair to good condition.

**Recommendations:** Tree #3 and #4 will be both in conflict with the proposed development, and falls just outside the proposed building footprint and underground parkade & within zone of heaviest construction & excavation activity. Removal is recommended.

Substantial grade changes will occur within the TPZ of the subject trees if the excavation goes to specifications for the underground parkade. This will be devastating to its health and overall structure. As observed by the photos other structures such as the retaining wall running from the existing house up to the trunks of tree #3 and a concrete walkway within the CRZ can also be examined, all these structures will be removed and will cause disturbances to the subject trees. It is important to note that these trees have shallow spreading roots that go way beyond the drip line/TPZ and the excavation and grade changes would impact those roots. This can be detrimental and can influence the moisture availability to the subject tree. This is due to a reduction in the total rooting mass, changes in drainage, and overall moisture content

## Considered at the Regular Council Meeting of May 10, 2022

2222 Clarke St, Port Moody

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Photo 6. Facing towards tree #5

**Species:** Western redcedar (*Thuja plicata*)

**Tree#:** 5

**Observations:** Tree #5 is a Western redcedar and is located to the back of the property and is situated to the north eastern side of the lot. The DBH measures 91cm at 1.4 meters high from the ground with an overall height of about 27m and a crown spread of about 9m.

- Observing the tree, a multi stem attachment near the top third can be examined that seem to be weakly attached with poor junctions. A large wound from a past large limb failure can be observed. Examining the wound, dead wood and what appears to be insect infestation can be examined. Low live crown ratio tree. Observing overall, subject tree is in fair to poor condition.

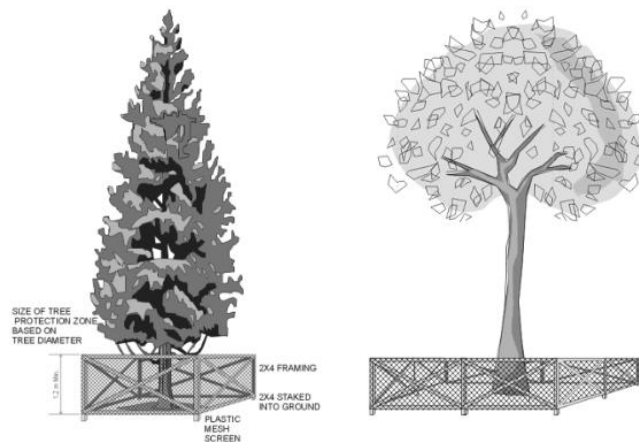
**Recommendations:** Tree #5 will be in conflict with the proposed development, and falls just outside the proposed building footprint of the laneway house & within zone of heaviest construction & excavation activity. Removal is recommended.

## 10.0 TREE PROTECTION BARRIER

Tree protection barrier summary		
Tree number (species)	DBH(cm)	Minimum tree protection barrier Radial span (m)
1	21	1.3
2	23	1.4

All trees identified above will require tree protection barriers to protect and prevent the tree trunk, branches and roots being damaged by any construction activities/operations. Prior to any construction activity on site, tree protection fences must be constructed at the specified distance from the tree trunks. The protection barrier or temporary fencing must be at least 1.2 m in height and constructed of 2 by 4 lumber with orange plastic mesh screening. Structure must be sturdy with vertical posts driven firmly into the ground. This must be constructed prior to excavation or construction and remain intact throughout the entire period of construction. Further standards for fencing construction can be found at: *City of Port Moody Tree Protection Bylaw No. 2961, 2015*

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2222 Clarke St, Port Moody

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### **11.0 CONCLUSIONS**

Based on our findings, a total of six (6) trees have been identified both offsite and onsite; four (4) trees are offsite city trees and two (2) trees are located onsite. A total of two (2) trees will be retained and protected with tree protection barriers implemented and a total of four (4) trees will be removed due to conflicts with the proposed development and unsuitability for retention.

Thank you for choosing ABC Tree Men. Any further questions can be forwarded to Francis Klimo at (604)358-5562

Regards,



Francis R. Klimo

ISA Certified Arborist #PN-8149A

ISA Certified Tree Risk Assessor (TRAQ)

BC Wildlife Danger Tree Assessor #7193

Considered at the Regular Council Meeting of May 10, 2022



**GEOTECHNICAL ENGINEERING REVIEW & ASSESSMENT  
PROPOSED TOWNHOUSE DEVELOPMENT**

**AT**

**2222 CLARKE STREET  
PORT MOODY, BC**

**FOR**

**NU-GEN PROJECTS LTD.**

**PREPARED BY**

**JEC TH CONSULTANTS INC.**

**JOB NO.: 218N551**

**DATE: JULY 14, 2018**

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Client: Nu-Gen Projects Ltd.  
Date: July 14, 2018  
Our File No.: 218N551

**GEOTECHNICAL REPORT REVIEW & ASSESSMENT  
PROPOSED TOWNHOUSE DEVELOPMENT  
2222 CLARKE STREET, PORT MOODY, BC**

**1.0 INTRODUCTION**

**1.1 AUTHORIZATION**

Further to the authorization from Nu-Gen Projects Ltd. on July 3, 2018, as requested, JECOTH Consultants Inc. (JCI) had carried out a Geotechnical Review and Assessment Report, based on the latest Architectural plan, for the proposed Townhouse development at 2222 Clarke Street, Port Moody, BC (see Figure 1 - Site Location Plan)

**1.2 METHODOLOGY**

The Geotechnical Review and Assessment includes:

- Reviewed the Surficial Geological Map from The Geological Survey of Canada (see Figure 2 – Geological Map)
- Reviewed available aerial photo for Port Moody (see Figure 3 – Aerial Photo).
- Evaluate anticipated subsurface soil conditions on site and from our previous experience in the near vicinity
- Conducted a site reconnaissance by our site staff at the subject site and surroundings
- Conducted subsurface investigation by Auger Drilling and DCPT Probing on March 7, 2018
- Assessed the available subsurface soil conditions and profile based on previous experience as well as our local experience within the close vicinity of the subject site (Figure 1A)
- Utilized our previous experience with similar projects.
- Communicated with Architect, Designers, owner representatives and/or construction team members, as required.

**1.3 OBJECTIVE**

This Geotechnical Report summarizes our findings and provides Geotechnical Engineering Comments and Recommendations for the foundation design and construction of the proposed Townhouse

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Client: Nu-Gen Projects Ltd.  
Date: July 14, 2018  
Our File No.: 218N551

development based on the latest Architectural Plan as required by BC Building Code (2012).

#### 1.4 DESIGN DRAWING

Architectural Plan dated July 2018 prepared by DF Architecture for the Construction of a 3 storey building with a total of 12 units Townhouses including a common underground basement parking. Any further update of the Architectural Plan which may affect the Geotechnical recommendations in this report must be notified to JCI, as such this report can further be updated if required.

#### 2.0 PREVIOUS GEOTECHNICAL ENGINEERING EXPERIENCE

JCI is a firm specializing in Geotechnical Engineering including foundation investigation and design, and design of temporary excavation shoring and underpinning systems. JCI staff members have extensive knowledge and experience in Geotechnical Engineering design and construction for Industrial, Commercial, Institutional, and Residential Project.

JCI's staffs have been retained as Geotechnical Engineer Consultant since 1978. In fact, JCI was retained as Geotechnical Engineer for similar nature near the vicinity of the subject site. (see Figure 1A)

#### 3.0 SITE CONDITIONS AND PROPOSED DEVELOPMENT

##### 3.1 SITE CONDITION

The site is located along the north side of Clarke Street between Douglas Street (to the west) and Elgin Street (to the East), Port Moody, BC, and is bounded by residential properties to the east and west as well as Vintner Street to the north.

The site is rectangular in shape, with approximate dimensions of about 66 ft.  $\pm$  (east-west) by 132 ft.  $\pm$  (north-south).

In general, the site slopes down from the South to the North from Clarke Street at about EL. 44.95 ft.  $\pm$  (EL. 13.7 m.  $\pm$ ) to the northwest corner of the site at about EL. 32.80 ft.  $\pm$  (EL. 10.0 m.  $\pm$ ), with a total change in existing grade of about 13 ft.  $\pm$  (average slope gradient of 10 %  $\pm$ ).

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### 3.2 PROPOSED DEVELOPMENT

Based on the provided drawings dated June, 2018 by DF Architecture, the proposed development will include a 3 levels Townhouse complex with north and south buildings and one level of underground parking.

According to the design plan, the lowest level underground parking will have a slab elevation at EL. 10.46 m. and therefore general excavation for foundation construction will be at about elevation EL. 9.86 m.  $\pm$ . Anticipated excavation along the south building perimeter will likely be up to about 3.5 m.  $\pm$  for underground parking. For the north building perimeter, the depth of excavation will likely be up to about 1 m.  $\pm$  for underground parking.

For the foundation excavation, it is anticipated that vertical shoring will be required due to minimal off-set distance for the north, east and west property lines to proposed building lines. Encroachment to the site perimeter properties will not be required if Temporary Excavation Shoring method of using Helical Piles Shoring is implemented.

## 4.0 FIELD WORK

### 4.1 SITE EXPLORATION

A subsurface soil field exploration was carried out at the subject site on March 7, 2018, to explore subsurface soil and groundwater condition. The exploration was consisted of:

- A total of two (2) Auger Drillholes, DH-1 and DH-2 were extended to a maximum depth of 30.0 ft.  $\pm$  from existing site grade. (For obtaining subsurface soil profile and collecting subsurface Soil samples for laboratory testing).
- Two (2) Dynamic Cone Penetration Test (DCPT) probe holes to a maximum depth of 30.0 ft.  $\pm$ . (For evaluating the density, compressibility and stiffness of subsurface soil encountered).

Both DCPT and auger drilling were carried out using a truck mounted drill rig. The approximate locations of the DCPT and auger drillholes are shown in Figure 3 – Aerial Photo.

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## 4.2 SOIL LOGS AND LIMITATIONS

All field work was performed under the full-time supervision of our technical staff who selected the auger hole locations to provide overall site coverage with minimum disruption of the property; all drillholes are logged with samples collected for further identification and for laboratory test. Generally, observations of groundwater levels are at the auger stems obtained during drilling.

The DCPT tests use a dropping weight from a constant height to drive a cone and rod into the ground. The number of blows for each foot of penetration is recorded. It provides general penetration resistance versus depth. The above data was used to identify the inferred soil stratigraphy and to assess various engineering properties and parameters of the subsurface soil encountered.

Subsurface Soil Logs of the auger holes including moisture contents and graphical representations of DCPT data are shown in Appendix "A".

The auger-hole logs and observations indicate subsurface conditions only at the locations of the auger holes. The precision of the subsurface conditions indicated will depend on the methods used, sampling frequency, and uniformity of the subsurface conditions. The methods and sampling frequencies have been selected to meet the needs of this project within the constraints of the budget and schedule.

## 5.0 ANTICIPATED SUBSURFACE SOIL CONDITIONS

### 5.1 GEOLOGICAL MAP

According to the available Surficial Geological Survey map prepared by the Geological Survey of Canada, the subject site is located between (i) Capilano sediments which consist of raised marine, deltaic and fluvial raised marine beach, spit, bar, and lag veneer, poorly sorted sand to gravel (except in bar deposits) normally less than 1 m. thick but up to 8 m. thick, and (ii) postglacial and pleistocene which consists of marine shore and fluvial sand up to 8 m. thick.

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## 5.2 PREVIOUS EXPERIENCE

According to our experience in the vicinity area, previous creeks and streams might be located at the vicinity of the subject site. It is, therefore, a possibility that debris wash out by stream such as tree trunks might be encountered at the subject site. If encountered, this debris must be excavated and removed from the foundation subgrade. Groundwater table is usually shallow and located at about 5 ft.  $\pm$  below existing grade.

## 5.3 SUBSURFACE SOIL CONDITIONS BY SITE EXPLORATION

The following table summarizes the findings of the subsurface soil profile observed from the site exploration by the drilling records at the subject site:

Depth from Existing site Grade	Soil Description	Remark
0 to 2.0 ft. $\pm$ (4 ft. of Fill @ DH #2)	<b>FILL / Top Soil</b> Dark brown, loose, moist, Organic Soil, with coarse SAND and GRAVEL	Avg. DCPT=7
2.0 to 11 ft. $\pm$	<b>Silty SAND and GRAVEL with Silt</b> Grey, medium loose to compact SAND and GRAVEL with SILT	Avg. DCPT=12 Min. 4
11 to 30 ft. $\pm$	<b>Silty SAND and SAND (With Silt)</b> Grey with brownish stain, compact dense, wet, with some Gravel and Silt (Silt Pocket - encountered)	Avg. DCPT=25 Min. 7

Based on the Drillhole logs, the findings are confirmed to the prediction of geological map and our experience in vicinity area. A native soil composed of grey, medium loose compact, wet, rounded and medium to coarse Silty SAND and GRAVEL, SAND with some SILT.

Auger Drillhole Logs are enclosed in Appendix "A" – Drillhole Log for reference.

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#### 5.4 GROUNDWATER CONDITIONS

Based on the Drillhole logs – DH-1 and DH-2, the groundwater level generally is located below 3 to 5 ft.  $\pm$  below the existing grade. During completion of drilling, the groundwater was measured by tape at about 3.5 ft  $\pm$  depth at auger drillhole DH-1 location and about 5 ft.  $\pm$  depth at auger drillholes DH-2.

#### 6.0 CONVENTIONAL SHALLOW FOUNDATION

Convention shallow foundation system will be considered feasible with the following recommendations:

##### 6.1 ALLOWABLE BEARING CAPACITY

Conventional shallow foundations such as stripped and pad footings is recommended to be found on the SAND and Gravel with SILT.

**An Allowable Bearing Capacity of 1,500 psf for SLS design and Ultimate Bearing Capacity of 2,250 psf for ULS design can be implemented to the foundation design for footings.**

The minimum footing size should be 24 in. for stripped footing and 36 in. for Pad footing. Perimeter footing should be located at least 18 in. below outside grade for confinement and frost protection.

##### 6.2 POTENTIAL LONG-TERM SETTLEMENT

According to the anticipated subsurface soil profile and typical loading schedule of a 3-storey Townhouse at-grade building found on compact SAND and Gravel with SILT or Structural FILL restoring grade, the Potential long-term post-construction settlement is anticipated to be minimal (in the order of 1" total and 0.5" differential settlement across building span). To avoid differential settlement, concentrated load should be avoided and distribution of the building load should be as uniform as possible.

The above settlement analysis is based on assumed typical loading schedule for a typical 3 - Storey townhouse with a basement. Additional settlement assessment must be conducted by JCI to confirm the values when Structural Plan and detail loading schedules are available for review.

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## 6.3 SEISMIC CONSIDERATION

### 6.3.1 SITE CLASS

The proposed development is located within Seismic Zone 4 of the National and B.C. Building Codes of Canada. It is recommended that the structure should be designed using site **Class D** for stiff soil for footing found on SAND and Gravel at vicinity depth of footing as recommended by the 2012 BC Building code.

### 6.3.2 SPECTRAL ACCELERATION

The design earthquake motions considered in BCBC 2012 has a 2% probability of exceedance in 50 years, or a return period of 2475 year. The BCBC 2012 recommends the use of Peak Ground Acceleration (PGA), Site Classification and the 5% damped spectral response acceleration value  $S_a(T)$  for interpretation of acceleration and velocity based site coefficients ( $F_a$  and  $F_v$ ) in Structural Design.

The following tables are obtained from Seismic Hazard values for a **Class C** site by Natural Resource Canada for the subject site Area. (Latitude 49.2779° North, Longitude 122.8626° West) – Details see Appendix “B” – Seismic Design Criteria.

<b>Sa (0.2)</b>	<b>Sa (0.5)</b>	<b>Sa (1.0)</b>	<b>Sa (2.0)</b>	<b>PGA</b>
0.935 g	0.627 g	0.322 g	0.169 g	0.464 g

The above value may be used as a general reference for interpretation of **Class D** for stiff soil in 2012 Building Code Table 4.1.8.4 b and c to obtain  $F_a$  and  $F_v$  value appropriately for design purpose. Search result print out for the seismic hazard values is shown in Appendix “B” – Seismic Design Criteria.

A linear interpretation of Table 4.1.8.4 for  $F_a$  value and Table 4.1.8.4c under a PGA of 0.464 g. are presented as follows:

	<b>Sa (0.2)</b>	<b>Sa (0.2)</b>	<b>Sa (0.2)</b>
	0.75 g.	1.0 g.	0.935 g.
<b>Fa</b>	1.1	1.1	<b>1.1</b>

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	Sa (1.0)	Sa (1.0)	Sa (1.0)
	0.3 g	0.4 g	0.322 g.
<b>Fv</b>	1.2	1.1	<b>1.18</b>

Based on the linear interpretation, of the obtained Fa and Fv respectively are **1.1** and **1.18** for **Class D** site.

### 6.3.3 LIQUEFACTION POTENTIAL

Subsurface soil liquefaction potential of the site is considered to be low and unlikely to occur due to the presence of non-liquefiable Sand and gravel at vicinity depth below footings.

### 6.3.4 SEISMIC BEARING CAPACITY

The Allowable Bearing Capacity can increase  $\frac{1}{3}$  for seismic design under a short term seismic event.

## 7.0 LATERAL PRESSURE

### 7.1 STATIC DESIGN -BASEMENT WALL

For foundation wall (assume Rigid) of the proposed semi-basement, a triangle lateral earth pressure of  $0.4\gamma H$  (lb/ft) as base of the triangular force distribution ( $\gamma$ : bulk density of soil; H: earth retaining wall height in ft.) should be used at the below grade structural wall under static design condition. Alternatively, a 24H equivalent rectangular lateral pressure can be applied with resultant force locate at  $\frac{1}{3}$  height of wall.

### 7.2 SEISMIC DESIGN – BASEMENT WALL

Under seismic design conditions, foundation walls should be designed for an additional horizontal invert triangular dynamic pressure ( $K_a\gamma H$ ). It is recommended to use the active earth pressure coefficient ( $K_a = 0.3$ ) since the building and surrounding soil will be moved together in seismic condition and not as rigid in the static case. A total, 40H equivalent rectangular lateral pressure can be applied in seismic design condition with result locate at  $\frac{1}{2}$  height of wall.

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### 7.3 HYDROSTATIC DESIGN

It is assumed that drain conditions will be applied to the underground parking basement wall at the subject site by provision of granular backfill and foundation drainage. As such, hydrostatic pressure will not be required to implement into the design. Also, foundation perimeter drainage system must be implemented to the foundation system of all basement walls.

## 8.0 FOUNDATION SUBGRADE PREPARATION

### 8.1 TEMPORARY DE-WATERING

Perch groundwater seepage will likely encounter during foundation excavation for removal of the poorly graded SAND and Gravel with Silt Pocket. Quantity of groundwater removal should not be substantial as perched water can be dried out in the process. It is estimated that temporary de-watering can be achieved by 1 or 2 nos. of construction sump pump.

All seepage water must be collected and removed by pumping during construction stage. Temporary de-watering the site can be achieved by intermediate stages as excavation advancing. Water removed from the excavation will require to divert into a temporary sump protected with gravel, and subsequently filtered by sediment trap or sedimentation tank before discharge into public storm water system.

**The requirement of sedimentation control is outside the scope of this report. JCI can provide a sedimentation control upon the request by the owner's representative.**

### 8.2 FOUNDATION SUBGRADE PROTECTION

The native foundation subgrade of native Sand and gravel can be disturbed by moisture and construction traffic. It is, therefore, recommended that the exposed subgrade surface must be protected by a minimum of 4 to 6 in. thick of  $\frac{3}{4}$  in. minus clear crushed gravel for protection against moisture and construction traffic.

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## **9.0 FOUNDATION DRAINAGE SYSTEM**

### **9.1 SITE RECONNAISSANCE**

According to the available information, the site is within a sloping topography. It is anticipated that both surface and subsurface runoff might migrate to the Foundation System of the proposed building.

### **9.2 GROUNDWATER CONDITION IN LONG TERM**

Since part of the site at South property line will likely excavate into the SAND and Gravel water bearing soil stratum, groundwater will likely draw down by foundation drainage locally near basement wall.

### **9.3 SUBSURFACE DRAINAGE**

Foundation drainage will be required for the common underground parking floor to protect the foundation as well as to prevent moisture migrates to the underground parking floor slab. A perimeter drainage system is recommended at approximate footing level along the exterior basement wall.

The perimeter drainage system consists of a 6 in. diameter Perforated PVC pipe (with a minimum 2 in. of crushed gravel bedding) and protect with minimum 6 in. of crushed gravel around the pipe. The drain pipe must be connected to the City's storm drainage system by gravity fall. In the case that connection to the City's storm system is located higher than the foundation drainage system, sump pump design will be required by Mechanical Engineer.

Underslab Drainage system will be required if excessive groundwater is encountered at the subject site. This will be confirmed during site review and inspection. The amount of seepage will be estimated during construction for underslab drainage design (if required).

All finished site grade around the building perimeter must be sloped down and away from the proposed building perimeter footprint as such run-off water can flow away from building. This will avoid excessive surface water to migrate to foundation drainage system.

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## 10.0 SLAB-ON-GRADE

For the Slab-On-Grade for underground parking floor, Underslab FILL will be required. Prior to placement of Underslab FILL, all unsuitable soil (Silt pocket, if any) or construction debris should be removed from the base of the excavation. Underslab FILL must consist of a minimum of 6 in. thick of Sand and Gravel which must compact to a minimum of 100 % of Standard Proctor Maximum Dry Density laboratory and field density test must be conducted by Certificated Testing Company.

Polyethylene sheet (Poly sheet) must be provided to minimize moisture migration to the parking floor slab.

## 11.0 STRUCTURAL FILL

Structural FILL, if required to restore foundation grade due to over excavation or removal of unsuitable soil, must consist of pit run Sand and Gravel with less than 5% silt (or material approved by Geotechnical Engineer in record) placed and compacted to a minimum of 100% of Standard Proctor Maximum Dry Density.

Structural FILL must be placed in maximum 12 in. loose lifts. Prior to placement of the Structural FILL, all topsoil, organic, random FILL, and other unsuitable material etc. should be removed.

A density-testing program must be carried out by certified laboratory and JCI will review the result to ensure that compaction requirements are satisfied. **The native Silty soil excavated during foundation construction will not be suitable as Structural FILL.**

## 12.0 TEMPORARY SHORING AND EXCAVATION

Excavation for the proposed underground parking will involve possible vertical shoring along all site perimeters except at the north site perimeter. It is anticipated that up to maximum excavation depth of 12 ft.  $\pm$  will be excavated in the Silty SAND and Gravel with Silt.

Open excavation, if applicable, should have temporary excavation slope not steeper than with 1.5H:1V at the Silty SAND and Gravel and the underlain compact Silty SAND and SAND.

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As reviewed with the owner representative and the construction team, it is understood that the temporary Vertical Shoring with non-encroachment Helical Pile method will be implemented along the site perimeters.

Details of the temporary shoring and excavation is beyond the scope of this report. JCI will prepare the Excavation and Shoring Drawing if requested.

### 13.0 BURIED UTILITIES

Excavations for newly installed utilities such as storm and sanitary sewer, telephone line, gas line and electrical cable etc., will likely encounter poorly graded SAND and Gravel near ground surface. Excavation side slopes must be sloped back no steeper than 1.5H:1V or suitable trench shields should be provided for protection of the workmen in the trench.

Backfill for utility trenches should consist of clean, well-graded sand and gravel compacted to at least 100 % of its Standard Proctor Maximum Dry Density.

Utilities should stay away from a 1H:1V stress zone if install below footing elevation of near-by footing to avoid undermine of adjacent foundation footing. This is to avoid disturbance and de-stabilize the footing in long term.

### 14.0 GEOTECHNICAL ENGINEERING FIELD REVIEW

JCI will provide Field Review (Geotechnical Engineering) according to the 2012 BC Building Code and Letter of Assurance (Schedule "B" –BCBC 2012). A Standard Geotechnical Field Inspection Requirement is attached in Appendix "C" as a guideline for Field Review. In addition, Work Safe requirements will be followed for temporary excavation requirements.

The following general field reviews (Require 48-hour notification) are required prior to and during construction stage:

- Temporary Excavation and stability at proposed site perimeter area.
- Shoring stability review on site
- Work Safe Inspection for excavation as required by the City
- Foundation Bearing Capacity (confirmation and Certification)
- Temporary Dewatering (Perched water occur between different type of soil and temp sedimentation control)
- Compaction of Structural FILL (FILL under Building Foundation and proposed roadway)

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- Compaction of Underslab FILL (FILL under Slab and Driveway pavement)
- Perimeter backfill (Material requirements, compaction and Drainage)
- Others site specified as specified in BC Building Code
- Unforeseen subsurface soil and groundwater conditions as encountered prior to, during and after construction stage.
- Other Geotechnical Related Issues.

Other Geotechnical Engineering technical requirements and in-situ testing will be performed by certified laboratory/testing company and will be reviewed by JCI during construction stage.

Specific Site Geotechnical Engineering and/or other geotechnical related issues must be addressed by JCI prior to and during construction stage.

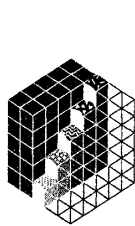
#### 15.0 FINAL FOUNDATION DESIGN REVIEW

JCI should be given an opportunity to review.

1. The detail and final Architectural, Structural Engineering Drawing must be reviewed by JCI prior to Building Permit Application such that the above comments and recommendations can be confirmed and modified.
2. Any other Electrical and Mechanical as well as Civil Engineering and Landscape Architect Drawings, which will likely affect the foundation design and construction, must be reviewed and approved by JCI.
3. A consultant coordination meeting must be arranged prior to Building Permit Application or prior to construction start such that all design team members can confirm all design parameters for the project.
4. JCI will review the exposed subsurface soil and groundwater conditions prior to and during construction stage. It is possible that the Geotechnical recommendations provided in this report be modified due to unforeseen circumstances and change in subsurface soil as well as groundwater condition.

This will allow JCI to confirm the comments and recommendations in this report.

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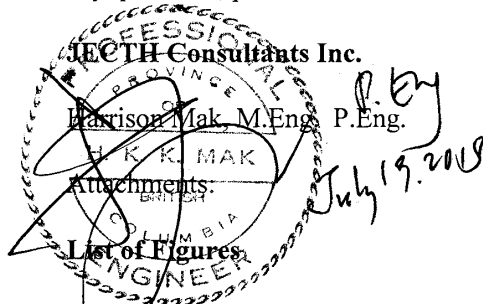
## 16.0 FIELD INSPECTIONS AND PRE-CONSTRUCTION MEETING

A pre-construction meeting must be organized between the site superintendent/contractor representatives and JCI at a minimum of two weeks before **any site construction activities**. A list of inspection requirement is shown in Appendix "C" – Standard Field Inspection Requirements.

JCI must be notified (24 hours) of all fieldwork **prior to any site work** in particular before site clearing, stripping and preparation. This will allow JCI to provide final comments for the project with respect to Geotechnical Engineering.

## 17.0 CLOSURE

We trust that this report should satisfy the immediate requirements. If you have any questions, please contact the undersigned at (604) 299-6617.



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  - Figure 3 – Aerial Photo
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  - Figure 5 – Architectural Site Plan
  - Figure 6 – Building Layout Plan
  - Figure 7 – Basement Plan
  - Figure 8 – Building Elevation (East and South)

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- Appendix "A" – Soil Logs and Moisture Content
- Appendix "B" – Seismic Design Criteria
- Appendix "C" – Standard Field Inspection Requirements

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Date: July 14, 2018  
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## FIGURES

### PROPOSED TOWNHOUSE DEVELOPMENT 2222 CLARKE STREET, PORT MOODY, BC

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- FIGURE 6 – BUILDING LAYOUT PLAN (SECOND LEVEL)
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**Site Location Plan  
Proposed Residential Development  
2222 Clarke Street  
Port Moody, BC  
Client: Nu-Gen Projects Ltd.**

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FC

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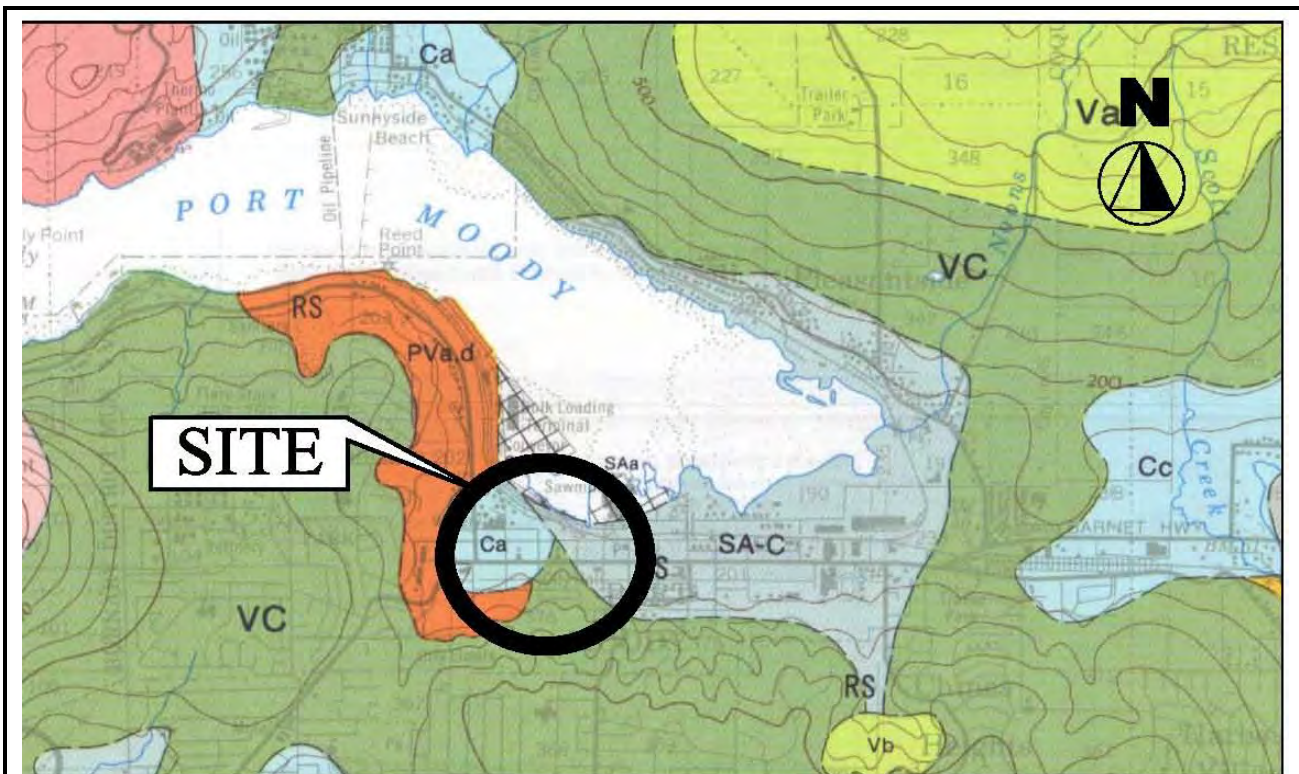
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**JECTH's Previous Projects Location Plan**  
**Proposed Townhouse Development**  
**2222 Clarke Street**  
**Port Moody, BC**  
**Client: Nu-Gen Projects Ltd.**

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CAPILANO SEDIMENTS (Chronologically equivalent to Sumas Drift and Fort Langle Formation, see Lithologic Units and Environments of Deposition)

Ca-e

Raised marine, deltaic, and fluvial deposits: Ca, raised marine beach, spit, bar, and lag veneer, poorly sorted sand to gravel (except in bar deposits) normally less than 1 m thick but up to 8 m thick, mantling older sediments and containing fossil marine shell casts up to 175 m above sea level; Cb, raised beach medium to coarse sand 1 to 5 m thick containing fossil marine shell casts; Cc, raised deltaic and channel fill medium sand to cobble gravel up to 15 m thick deposited by proglacial streams and commonly underlain by silty to silty clay loam; Cd, marine and glaciomarine stony (including till-like deposits) to stoneless silt loam to clay loam with minor sand and silt normally less than 3 m thick but up to 30 m thick, containing marine shells. These deposits thicken from west to east. Ce, mainly marine silt loam to clay loam with minor sand, silt, and stony glaciomarine material (see Cd), up to 60+m thick. In many of the upland areas sediments mapped as Cc and Cd are mantled by a thin veneer (less than 1 m) of Ca

POSTGLACIAL AND PLEISTOCENE

SA-C

Marine shore and fluvial sand up to 8 m thick, Cb in part has been reworked and redeposited by lowland streams (SAh)

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**Geological Map**  
**Proposed Townhouse Development**  
**2222 Clarke Street**  
**Port Moody, BC**  
**Client: Nu-Gen Projects Ltd.**

Pre.  
FC

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Dwg. No: 218N551 – Fig. 2

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**Aerial Photo  
Proposed Residential Development  
2222 Clarke Street, Port Moody, BC**

**Client: Nu-Gen Projects Ltd.**

Prepared by:  
FC

Chk.  
HKM

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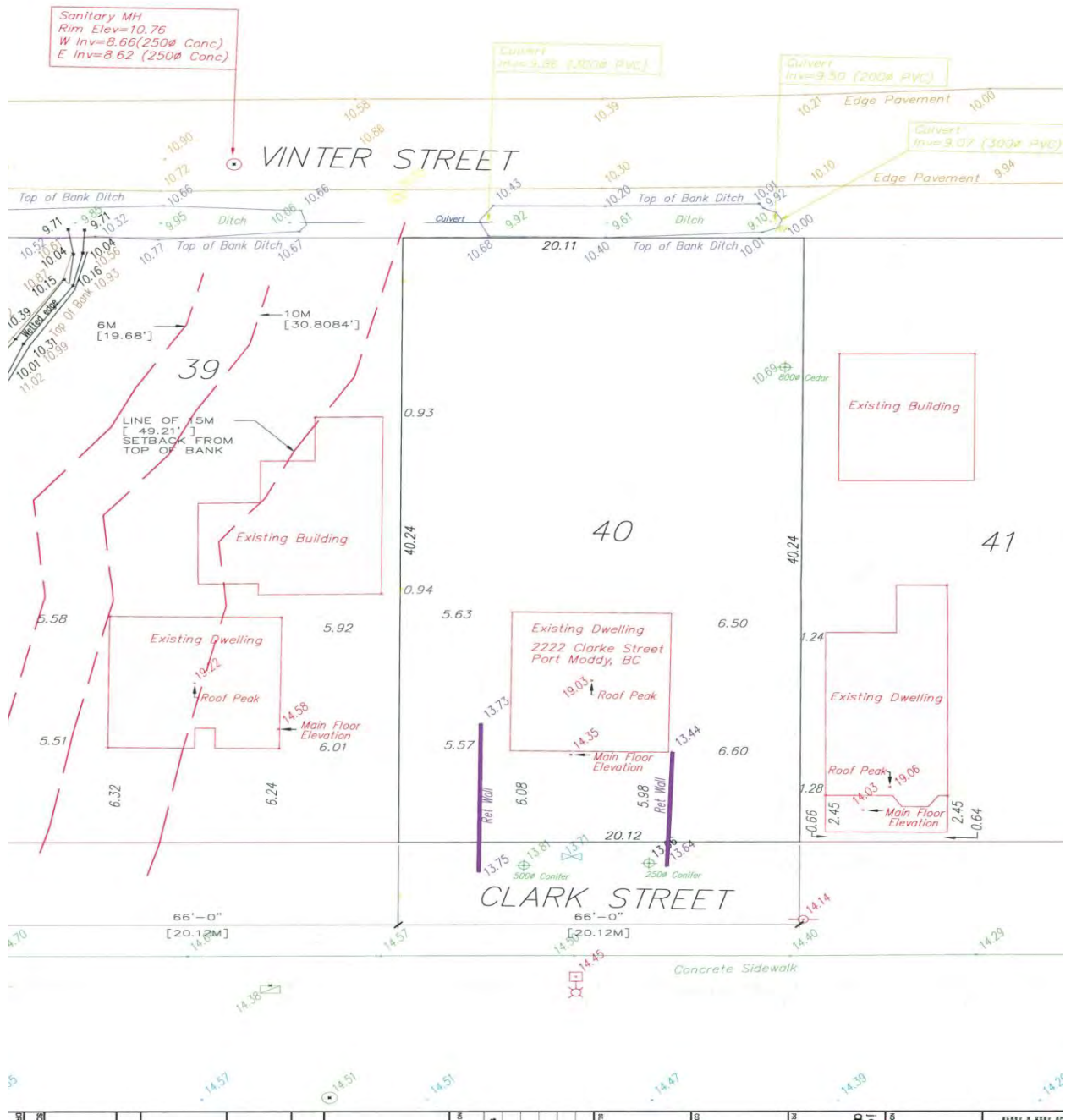
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**Survey Plan**  
**Proposed Townhouse Development**  
**2222 Clarke Street**  
**Port Moody, BC**  
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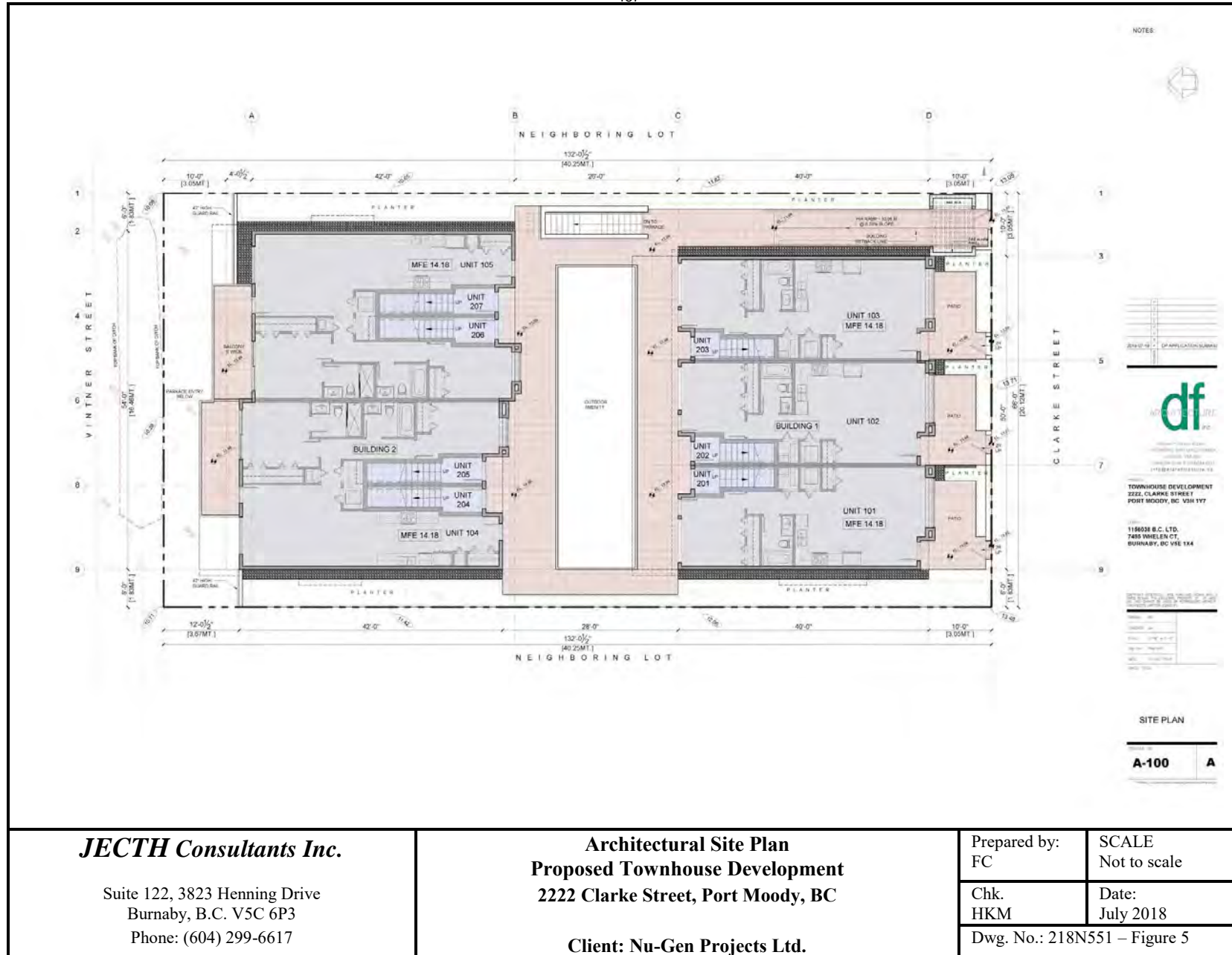
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Date:  
July 2018

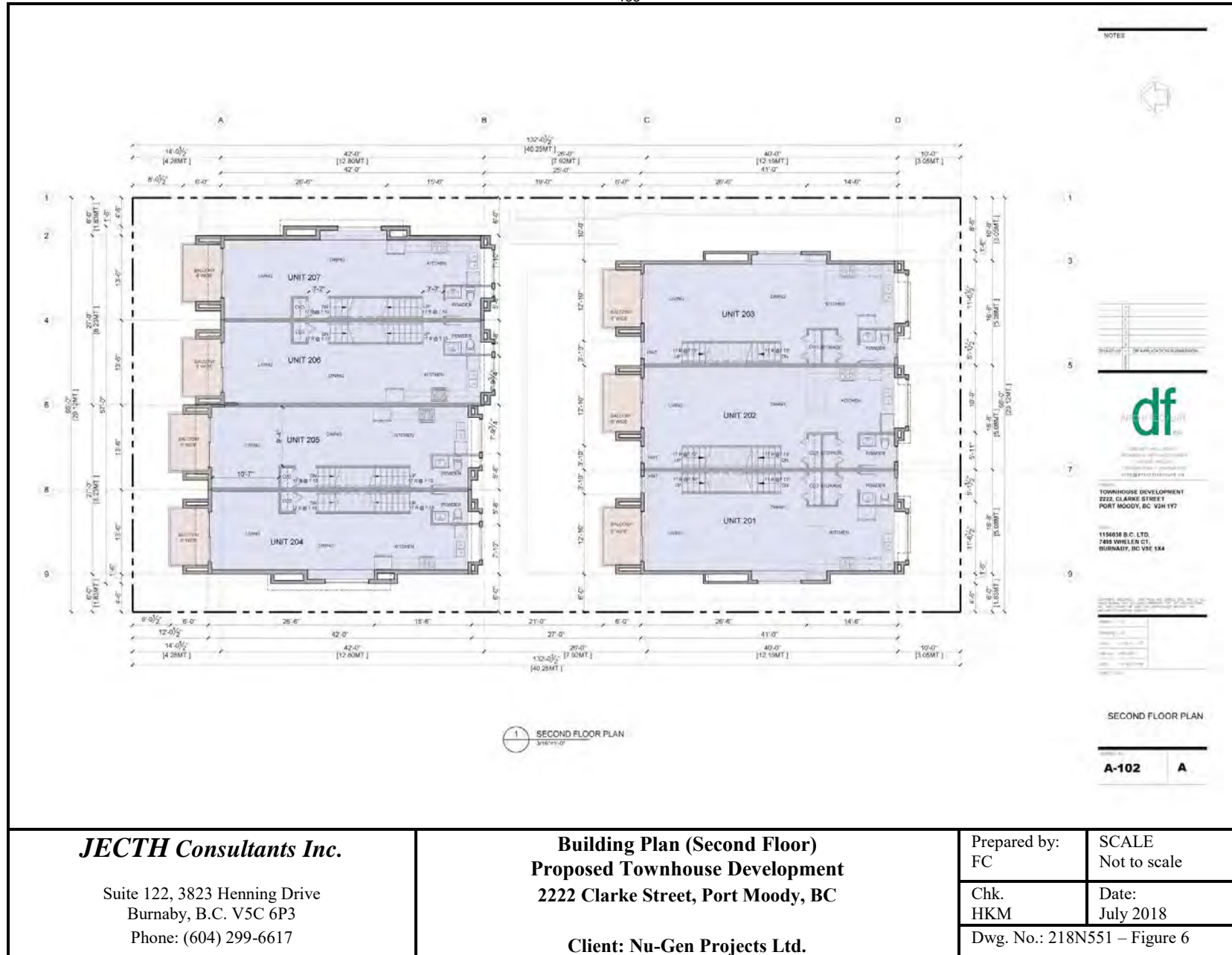
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487



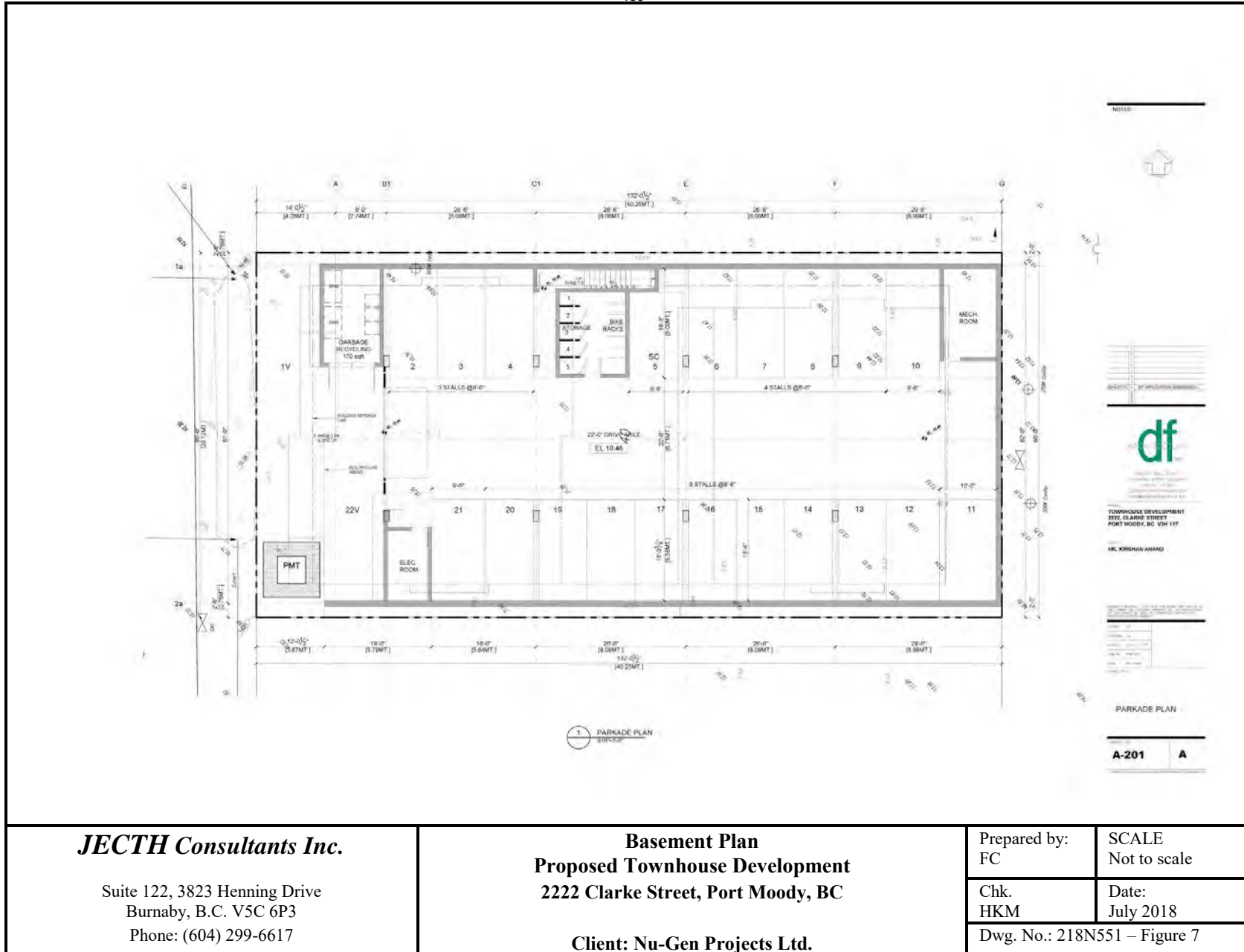
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488



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489



## 490



1156038 B.C. LTD.  
7405 WHELEN CT.  
BURNABY, BC V5E 1X4

**A-303**

Dwg. No.: 218N551 – Figure 8

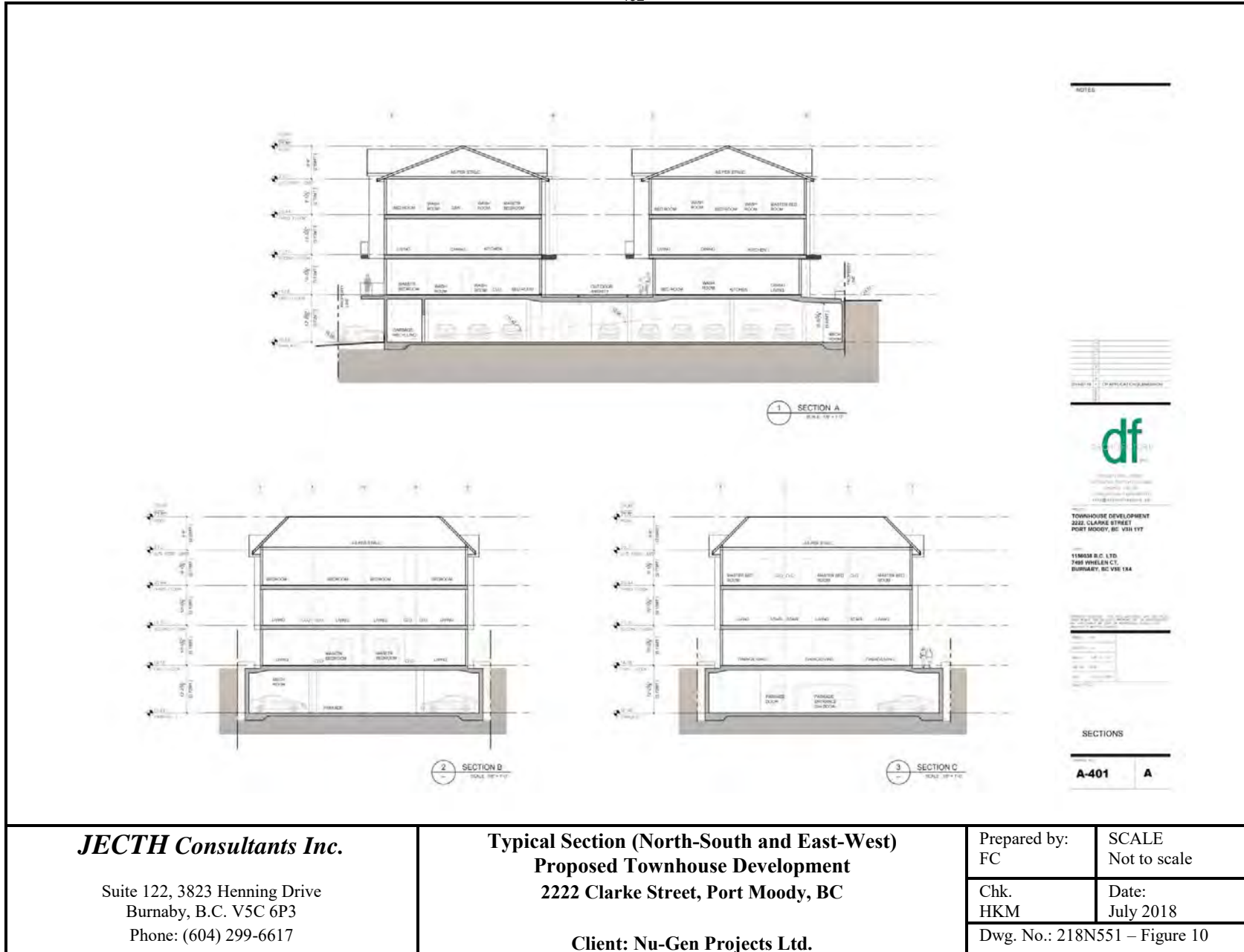
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# Considered at the Regular Council Meeting of May 10, 2022

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Considered at the Regular Council Meeting of May 10, 2022



Client: Nu-Gen Projects Ltd.

Date: July 14, 2018

Our File No.: 218N551

## APPENDIX "A"

### PROPOSED TOWNHOUSE DEVELOPMENT 2222 CLARKE STREET PORT MOODY, BC

### SOIL LOGS & MOISTURE CONTENT

122-3823 Henning Dr.  
Burnaby, B.C. V5C 6P3  
Phone: 604-299-6617  
Fax: 604-299-6641  
Email: jecth@jecth.com  
Web: www.jecth.com

Considered at the Regular Council Meeting of May 10, 2022

494

JECTH Consultants Inc.		TEST HOLE LOG		DCPT NO.: DCPT-1	
Job No.:	218N551	Ground Elevation:	EL. 1.3 m ±		
Location:	2222 Clarke Street, Port Moody, BC	Driller/Excavator:	Southland Drilling Co. Ltd.		
Drilling Date:	March-07-18	Equipment:	Truck Mounted Auger		
Weather:	Cloudy	Engineer:	IC	Logged	IC
				Page:	2 of 2

DEPTH (ft)	SYMBOL	SOIL PROFILE DESCRIPTION	WATER LEVEL	SAMPLE		DCPT BLOWS / FEET	DCPT BLOW COUNT (NO.)		
				TYPE	NO.		0	50	100
20		Greyish brown, dense, wet fine to medium SAND with gravel, occasional pebbles, trace of SILT							
21						31			
22						19			
23	G			1-22.5	9				
24					38				
25		25.0'			34				
26		Greyish brown, dense, wet fine to medium SAND with gravel, occasional pebbles, trace of SILT				40			
27									
28	G			1-27.5					
29									
30				30.0'					
31		Drillhole end at 30 ft. GWT measured at 3.5 ft. by tape							
32									
33									
34									
35									
36									
37									
38									
39									
40									

**Legend:**

- G - Soil log obtained from DH1
- G - Grab soil sample
- DCPT - Dynamic Cone Penetration Test
- ∇ - Water level

# Considered at the Regular Council Meeting of May 10, 2022

495

JECTH Consultants Inc.		TEST HOLE LOG		Drill Hole No.: DH-1	
Job No.:	218N551	Ground Elevation:	EL. 1.3 m ±		
Location:	2222 Clarke Street, Port Moody, BC	Driller/Excavator:	Southland Drilling Co. Ltd.		
Drilling Date:	March-07-18	Equipment:	Truck Mounted Auger		
Weather:	Cloudy	Engineer:	IC	Logged Staff:	IC
				Page:	1 of 2

DEPTH (ft)	SYMBOL	SOIL PROFILE DESCRIPTION	WATER LEVEL	SAMPLE		DCPT BLOWS / FEET	MOISTURE CONTENT (%)		
				TYPE	NO.		0	50	100
0		Surface							
1		Brown, medium loose, dry Silt, Sand and trace of gravel, trace of organics (FILL)				7			
2		2.0'		G	1-1.5			38.0%	
3		2.5'	WL	G	1-2	7		31.0%	
4		3.5'	▽			4			
5		5.0'		G	1-4	10		22.2%	
6		Greyish brown, compact, wet silty SAND and gravel, some pebbles				15			
7						17			
8						21			
9				G	1-7.5			70.0%	
10		10.0'				14			
11		11.0'				4			
12		Greyish brown, compact, wet silty SAND and gravel, some pebbles				7			
13		12.0'				8			
14		Greyish brown, compact, wet, fine to medium SAND with trace of gravel, trace of SILT				8			
15		15.0'		G	1-12.5			25.9%	
16						16			
17						26			
18						29			
19		19.0'				32			
20		20.0'				28			
				G	1-17.5			25.8%	
						32			
						30			
						32			
		To be continued		<b>Legend:</b> <ul style="list-style-type: none"> <li>- DCPT Log obtained from DCPT-1</li> <li>- G - Grab soil sample</li> <li>- DCPT - Dynamic Cone Penetration Test</li> <li>- ▽ - Water level</li> </ul>					

Considered at the Regular Council Meeting of May 10, 2022

496

JECTH Consultants Inc.		TEST HOLE LOG		Drill Hole No.: DH-1	
Job No.:	218N551	Ground Elevation:	EL. 1.3 m ±		
Location:	2222 Clarke Street, Port Moody, BC	Driller/Excavator:	Southland Drilling Co. Ltd.		
Drilling Date:	March-07-18	Equipment:	Truck Mounted Auger		
Weather:	Cloudy	Engineer:	IC	Logged Staff:	IC
				Page:	2 of 2

DEPTH (ft)	SYMBOL	SOIL PROFILE DESCRIPTION	WATER LEVEL	SAMPLE		DCPT BLOWS / FEET	MOISTURE CONTENT (%)			
				TYPE	NO.		0	50	100	
20		Greyish brown, dense, wet fine to medium SAND with gravel, occasional pebbles, trace of SILT								
21										
22										
23				G	1-22.5	9		19.1%		
24										
25										
26										
27										
28						G	1-27.5		18.6%	
29										
30		25.0'								
31		Greyish brown, dense, wet fine to medium SAND with gravel, occasional pebbles, trace of SILT								
32										
33										
34										
35										
36										
37										
38										
39										
40										
				<b>Legend:</b> <ul style="list-style-type: none"> <li>- DCPT Log obtained from DCPT-1</li> <li>- G - Grab soil sample</li> <li>- DCPT - Dynamic Cone Penetration Test</li> <li>- ∇ - Water level</li> </ul>						

# Considered at the Regular Council Meeting of May 10, 2022

497

JECTH Consultants Inc.		TEST HOLE LOG		DCPT NO.: DCPT-2	
Job No.:	218N551	Ground Elevation:	EL. 1.3 m ±		
Location:	2222 Clarke Street, Port Moody, BC	Driller/Excavator:	Southland Drilling Co. Ltd.		
Drilling Date:	March-07-18	Equipment:	Truck Mounted Auger		
Weather:	Cloudy	Engineer:	IC	Logged	IC
				Page:	1 of 2

DEPTH (ft)	SYMBOL	SOIL PROFILE DESCRIPTION	WATER LEVEL	SAMPLE		DCPT BLOWS/ FEET	DCPT BLOW COUNT (NO.)		
				TYPE	NO.		0	50	100
0		Surface (asphalt surface 3.5 in. ±)							
1		Yellowish brown, dry, Sand and gravel (Road base - FILL)				4			
2		2.0'				3			
3		Brown and darkish brown, dry to moist, SILT, SAND, organic soil, trace of garbage (FILL)		G	1-2.5	1			
4		4.0'		G	1-4	2			
5		Greyish brown, loose, moist to wet, silty SAND with gravel (native)	WL 5.0'			5			
6		5.0'	▽			8			
7		Greyish brown, compact to medium dense, wet silty SAND and gravel, trace of pebbles				20			
8				G	1-7.5	25			
9						29			
10		10.0'				23			
11		Greyish brown, compact to medium dense, wet silty SAND and gravel, trace of pebbles, but medium loose				7			
12		12.0'		G	1-11.5	7			
13		Yellowish to greyish brown, medium loose to compact, wet silty SAND, trace of gravel		G	1-13	23			
14		Silt pocket at 14' (6 in. ± thick)				15			
15		15.0'				11			
16		Yellowish to greyish brown, medium loose to compact, wet silty SAND, trace of gravel, but compact				19			
17						20			
18				G	1-17.5	14			
19						16			
20		20.0'				24			
		To be continued		<b>Legend:</b> - G - Soil log obtained from DH2 - G - Grab soil sample - DCPT - Dynamic Cone Penetration Test - ▽ - Water level					

Considered at the Regular Council Meeting of May 10, 2022

498

JECH Consultants Inc.		TEST HOLE LOG		DCPT NO.: DCPT-2	
Job No.:	218N551	Ground Elevation:	EL. 1.3 m ±		
Location:	2222 Clarke Street, Port Moody, BC	Driller/Excavator:	Southland Drilling Co. Ltd.		
Drilling Date:	March-07-18	Equipment:	Truck Mounted Auger		
Weather:	Cloudy	Engineer:	IC	Logged	IC
				Page:	2 of 2

DEPTH (ft)	SYMBOL	SOIL PROFILE DESCRIPTION	WATER LEVEL	SAMPLE		DCPT BLOWS/ FEET	DCPT BLOW COUNT (NO.)		
				TYPE	NO.		0	50	100
20									
21		Greyish brown, dense, wet fine to medium SAND, trace of gravel, trace of SILT				15			
22						35			
23				G	1-22.5	36			
24						28			
25		25.0'				28			
26		Greyish brown, dense, wet fine to medium SAND, trace of gravel, trace of SILT		G	1-26	22			
27		27.0'				17			
28		Yellowish brown, dense, wet SAND with gravel, trace of SILT		G	1-28	37			
29						47			
30		30.0'							
31		Drillhole end at 30 ft. GWT at 5 ft. ± as observed in auger stem							
32									
33									
34									
35									
36									
37									
38									
39									
40									

**Legend:**

- G - Soil log obtained from DH2
- G - Grab soil sample
- DCPT - Dynamic Cone Penetration Test
- ∇ - Water level

# Considered at the Regular Council Meeting of May 10, 2022

499

<b>JECTH Consultants Inc.</b>		<b>TEST HOLE LOG</b>		<b>Drill Hole No.: DH-2</b>	
Job No.:	218N551	Ground Elevation:	EL. 1.3 m ±		
Location:	2222 Clarke Street, Port Moody, BC	Driller/Excavator:	Southland Drilling Co. Ltd.		
Drilling Date:	March-07-18	Equipment:	Truck Mounted Auger		
Weather:	Cloudy	Engineer:	IC	Logged Staff:	IC
				Page:	1 of 2

DEPTH (ft)	SYMBOL	SOIL PROFILE DESCRIPTION	WATER LEVEL	SAMPLE		DCPT BLOWS / FEET	MOISTURE CONTENT (%)		
				TYPE	NO.		0	50	100
0		Surface (asphalt surface 3.5 in. ±)							
1		Yellowish brown, dry, Sand and gravel (Road base - FILL)				4			
2		2.0'				3			
3		Brown and darkish brown, dry to moist, SILT, SAND, organic soil, trace of garbage (FILL)		G	1-2.5	1		120.0%	
4		4.0'	WL	G	1-4	2		50.0%	
5		Greyish brown, loose, moist to wet, silty SAND with gravel (native)	5.0'			5			
6		Greyish brown, compact to medium dense, wet silty SAND and gravel, trace of pebbles	▽			8			
7						20			
8				G	1-7.5	25		20.3%	
9						29			
10		10.0'				23			
11		Greyish brown, compact to medium dense, wet silty SAND and gravel, trace of pebbles, but medium loose				7			
12		12.0'		G	1-11.5	7		20.7%	
13		Yellowish to greyish brown, medium loose to compact, wet silty SAND, trace of gravel		G	1-13	23		28.8%	
14		Silt pocket at 14' (6 in. ± thick)				15			
15		15.0'				11			
16		Yellowish to greyish brown, medium loose to compact, wet silty SAND, trace of gravel, but compact				19			
17						20			
18				G	1-17.5	14		25.0%	
19						16			
20		20.0'				24			
		To be continued		<b>Legend:</b> - DCPT Log obtained from DCPT-2 - G - Grab soil sample - DCPT - Dynamic Cone Penetration Test - ▽ - Water level					

# Considered at the Regular Council Meeting of May 10, 2022

500

JEC TH Consultants Inc.		TEST HOLE LOG		Drill Hole No.: DH-2	
Job No.:	218N551	Ground Elevation:	EL. 1.3 m ±		
Location:	2222 Clarke Street, Port Moody, BC	Driller/Excavator:	Southland Drilling Co. Ltd.		
Drilling Date:	March-07-18	Equipment:	Truck Mounted Auger		
Weather:	Cloudy	Engineer:	IC	Logged Staff:	IC
				Page:	2 of 2

DEPTH (ft)	SYMBOL	SOIL PROFILE DESCRIPTION	WATER LEVEL	SAMPLE		DCPT BLOWS / FEET	MOISTURE CONTENT (%)		
				TYPE	NO.				
20							0	50	100
21		Greyish brown, dense, wet fine to medium SAND, trace of gravel, trace of SILT					15		
22							35		
23				G	1-22.5		36	21.9%	
24							28		
25		25.0'					28		
26		Greyish brown, dense, wet fine to medium SAND, trace of gravel, trace of SILT		G	1-26		22	22.4%	
27		27.0'					17		
28		Yellowish brown, dense, wet SAND with gravel, trace of SILT		G	1-28		37	16.9%	
29							47		
30		30.0'							
31		Drillhole end at 30 ft. GWT at 5 ft. ± as observed in auger stem							
32									
33									
34									
35									
36									
37									
38									
39									
40									

**Legend:**

- DCPT Log obtained from DCPT-2
- G - Grab soil sample
- DCPT - Dynamic Cone Penetration Test
- ∇ - Water level

# Considered at the Regular Council Meeting of May 10, 2022

501

<b>JECTH Consultants Inc.</b> 122 - 3823 Henning Dr., Burnaby, B.C. V5C 6P3 Tel: (604) 299-6617 Fax: (604) 299-6641 Web: www.jecth.com Email: jecth@jecth.com	PROJECT NO: 218N551		
	LOCATION: Clarke St, Port Moody		
	STATION OFFSET		
	GROUND ELEV.		
	BORING No DH-1	METHOD	Drilling
<b>MOISTURE CONTENT</b>			
TESTED BY	KW	DATE	Mar7 2018

Hole No.	DH1	DH1	DH1	DH1	DH1	DH1
Depth (ft)	1.5	2	4	7.5	12.5	17.5
Sample No.	1-1.5	1-2	1-4	1-7.5	1-12.5	1-17.5
Container No.						
Mass of Wet Sample + Tare (g)	69	76	77	68	68	83
Mass of Dry Sample + Tare (g)	50	58	63	40	54	66
Tare of Container						
Mass of Water	19	18	14	28	14	17
Mass of Dry Soil	50	58	63	40	54	66
MOISTURE CONTENT	38.0%	31.0%	22.2%	70.0%	25.9%	25.8%

Hole No.	DH1	DH1				
Depth (ft)	22.5	27.5				
Sample No.	1-22.5	1-27.5				
Container No.						
Mass of Wet Sample + Tare (g)	81	70				
Mass of Dry Sample + Tare (g)	68	59				
Tare of Container						
Mass of Water	13	11				
Mass of Dry Soil	68	59				
MOISTURE CONTENT	19.1%	18.6%				

Hole No.						
Depth (ft)						
Sample No.						
Container No.						
Mass of Wet Sample + Tare (g)						
Mass of Dry Sample + Tare (g)						
Tare of Container						
Mass of Water						
Mass of Dry Soil						
MOISTURE CONTENT						

# Considered at the Regular Council Meeting of May 10, 2022

502

<b>JECTH Consultants Inc.</b> 122 - 3823 Henning Dr., Burnaby, B.C. V5C 6P3 Tel: (604) 299-6617 Fax: (604) 299-6641 Web: www.jecth.com Email: jecth@jecth.com  <b>MOISTURE CONTENT</b>	PROJECT NO: 218N551		
	LOCATION: Clarke St, Port Moody		
	STATION OFFSET		
	GROUND ELEV.		
	BORING No DH-2	METHOD	Drilling
	TESTED BY KW	DATE	Mar7 2018

Hole No.	DH2	DH2	DH2	DH2	DH2	DH2
Depth (ft)	2.5	4	7.5	11.5	13	17.5
Sample No.	2-2.5	2-4	2-7.5	2-11.5	2-13	2-17.5
Container No.						
Mass of Wet Sample + Tare (g)	66	69	71	70	76	70
Mass of Dry Sample + Tare (g)	30	46	59	58	59	56
Tare of Container						
Mass of Water	36	23	12	12	17	14
Mass of Dry Soil	30	46	59	58	59	56
MOISTURE CONTENT	120.0%	50.0%	20.3%	20.7%	28.8%	25.0%

Hole No.	DH2	DH2	DH2			
Depth (ft)	22.5	26	28			
Sample No.	2-22.5	2-26	2-28			
Container No.						
Mass of Wet Sample + Tare (g)	78	71	69			
Mass of Dry Sample + Tare (g)	64	58	59			
Tare of Container						
Mass of Water	14	13	10			
Mass of Dry Soil	64	58	59			
MOISTURE CONTENT	21.9%	22.4%	16.9%			

Hole No.						
Depth (ft)						
Sample No.						
Container No.						
Mass of Wet Sample + Tare (g)						
Mass of Dry Sample + Tare (g)						
Tare of Container						
Mass of Water						
Mass of Dry Soil						
MOISTURE CONTENT						

Considered at the Regular Council Meeting of May 10, 2022

503



Client: Nu-Gen Projects Ltd.

Date: July 14, 2018

Our File No.: 218N551

## APPENDIX “B”

### PROPOSED TOWNHOUSE DEVELOPMENT 2222 CLARKE STREET PORT MOODY, BC

#### SEISMIC DESIGN CRITERIA

122-3823 Henning Dr.  
Burnaby, B.C. V5C 6P3  
Phone: 604-299-6617  
Fax: 604-299-6641  
Email: jecth@jecth.com  
Web: www.jecth.com

## 2010 National Building Code Seismic Hazard Calculation

INFORMATION: Eastern Canada English (613) 995-5548 français (613) 995-0600 Facsimile (613) 992-8836  
Western Canada English (250) 363-6500 Facsimile (250) 363-6565

Requested by: JECTH Consultants Inc.

July 19, 2018

Site Coordinates: 49.2779 North 122.8626 West

User File Reference: 2222 Clarke Street, Port Moody, BC

### National Building Code ground motions:

2% probability of exceedance in 50 years (0.000404 per annum)

Sa(0.2)	Sa(0.5)	Sa(1.0)	Sa(2.0)	PGA (g)
0.935	0.627	0.322	0.169	0.464

**Notes.** Spectral and peak hazard values are determined for firm ground (NBCC 2010 soil class C - average shear wave velocity 360-750 m/s). Median (50th percentile) values are given in units of g. 5% damped spectral acceleration (Sa(T), where T is the period in seconds) and peak ground acceleration (PGA) values are tabulated. Only 2 significant figures are to be used. *These values have been interpolated from a 10 km spaced grid of points. Depending on the gradient of the nearby points, values at this location calculated directly from the hazard program may vary. More than 95 percent of interpolated values are within 2 percent of the calculated values.* **Warning:** You are in a region which considers the hazard from a deterministic Cascadia subduction event for the National Building Code. Values determined for high probabilities (0.01 per annum) in this region do not consider the hazard from this type of earthquake.

### Ground motions for other probabilities:

Probability of exceedance per annum	0.010	0.0021	0.001
Probability of exceedance in 50 years	40%	10%	5%
Sa(0.2)	0.217	0.486	0.667
Sa(0.5)	0.148	0.321	0.443
Sa(1.0)	0.077	0.166	0.226
Sa(2.0)	0.039	0.085	0.118
PGA	0.112	0.245	0.332

### References

**National Building Code of Canada 2010 NRCC no. 53301**; sections 4.1.8, 9.20.1.2, 9.23.10.2, 9.31.6.2, and 6.2.1.3

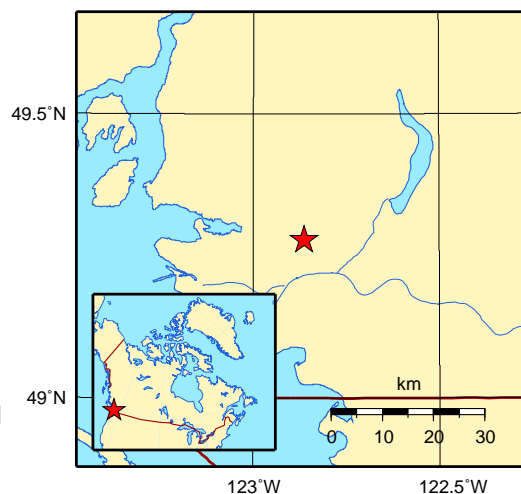
**Appendix C:** Climatic Information for Building Design in Canada - table in Appendix C starting on page C-11 of Division B, volume 2

**User's Guide - NBC 2010, Structural Commentaries NRCC no. 53543** (in preparation)  
**Commentary J:** Design for Seismic Effects

**Geological Survey of Canada Open File xxxx**  
Fourth generation seismic hazard maps of Canada: Maps and grid values to be used with the 2010 National Building Code of Canada (in preparation)

See the websites [www.EarthquakesCanada.ca](http://www.EarthquakesCanada.ca) and [www.nationalcodes.ca](http://www.nationalcodes.ca) for more information

Aussi disponible en français



Natural Resources  
Canada

Ressources naturelles  
Canada

Canada

Considered at the Regular Council Meeting of May 10, 2022



Client: Nu-Gen Projects Ltd.  
Date: July 14, 2018  
Our File No.: 218N551

## APPENDIX “C”

**PROPOSED TOWNHOUSE DEVELOPMENT  
2222 CLARKE STREET  
PORT MOODY, BC**

### STANDARD FIELD INSPECTION REQUIREMENTS

122-3823 Henning Dr.  
Burnaby, B.C. V5C 6P3  
Phone: 604-299-6617  
Fax: 604-299-6641  
Email: jecth@jecth.com  
Web: www.jecth.com



Client: Nu-Gen Projects Ltd.

Date: July 14, 2018

Our File No.: 218N551

## **Geotechnical Engineering Field Review and Inspection Requirements BC Building Code 2012**

Based on the BC Building Code 2012, the following Design and field review must be completed by JECTH Consultants Inc. (Geotechnical in Record, **GIR**) such that Letter of Compliance (Schedule "C") required by local municipality for Occupancy Permit can be issued.

### **7.0 Geotechnical - Temporary**

#### **7.1 Excavation**

##### **7.1.1 Foundation**

Excavation depth more than 4 ft. must be certified by GIR as required by WorkSafe BC ☐

##### **7.1.2 Buildings and Structures**

Buildings and Structures within the 1H:1V stress influence line from the bottom of Excavation must be reviewed and approved by GIR ☐

##### **7.1.3 Trench**

Excavation for underground utilities for depth more than 4 ft. must be reviewed and approved by GIR ☐

##### **7.1.4 Underground Utilities**

All underground utilities (both on-site and off-site) within and along the site perimeter must be identified both on drawing and physical on site prior to any foundation excavation and slope excavation. ☐

#### **7.2 Shoring**

##### **7.2.1 Vertical Shoring**

Vertical Shoring must be design by GIR to ensure excavation perimeter is stable during foundation excavation before placement of perimeter backfill. ☐

122-3823 Henning Dr.  
Burnaby, B.C. V5C 6P3  
Phone: 604-299-6617  
Fax: 604-299-6641  
Email: jecth@jecth.com  
Web: www.jecth.com



Client: Nu-Gen Projects Ltd.

Date: July 14, 2018

Our File No.: 218N551

### 7.2.2 Temporary Shoring

Temporary Shoring such as sheetpile and shotcrete with tie back anchors or other vertical features must be inspected by GIR ☐

### 7.2.3 Shoring Method

Shoring method such as sheetpile and shotcrete with tie-back anchors wall must be carried out under the supervision of GIR ☐

### 7.2.4 Underground Utilities

All underground utilities (both on-site and off-site) within and along the site perimeter must be identified both on drawing and physical on site prior to any foundation excavation and shoring work. ☐

## 7.3 Underpinning

### 7.3.1 Pre-Excavation

Pre-excavation inspection and Review must be conducted by both Structural and Geotechnical Engineers (both Geotechnical Engineers from the adjacent structures and GIR) prior to underpinning excavation. ☐

### 7.3.2 Monitoring Survey

Survey monitoring points must be installed at the underpinning building(s) and any movement sensitive Structural Component before foundation excavation. The survey monitoring system must be conducted prior to any site activities and submit to GIR. ☐

### 7.3.3 Structural Inspection

Structural Inspection and photographs must be carried out prior to foundation excavation for future records and reference by Structural Engineer retained by either owner of adjacent property or subject property owner. ☐

122-3823 Hanning Dr.  
Burnaby, B.C. V5C 6P3  
Phone: 604-299-6617  
Fax: 604-299-6641  
Email: jecth@jecth.com  
Web: www.jecth.com



Client: Nu-Gen Projects Ltd.

Date: July 14, 2018

Our File No.: 218N551

## **7.4 Temporary Construction Dewatering**

### **7.4.1 Perched groundwater and Surface Drainage**

For perched groundwater and surface Drainage by precipitation, conventional pump can be used to maintain the site in relatively dry condition. ☐

### **7.4.2 Well point**

Well point and other measure of temporary dewatering will be required if high groundwater level (actual ground water table) is encountered ☐

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Client: Nu-Gen Projects Ltd.

Date: July 14, 2018

Our File No.: 218N551

## **8.0 Geotechnical - Permanent**

### **8.1 Bearing Capacity of Foundation Subgrade Soil**



#### **8.1.1 Foundation Subgrade Excavation**

Review exposed foundation subgrade excavation and ensure that all remove all unsuitable soil/material until suitable bearing subgrade is exposed



#### **8.1.2 Foundation Subgrade Protection**

In the event that the exposed foundation subgrade soil is sensitive to moisture, foundation subgrade might be protected by a layer granular soil such as crushed gravel due to wet condition and construction traffic. A lean concrete can be used instead of crushed gravel.



#### **8.1.3 Structural FILL**

Review Structural Fill if over-excavated or raise of grade is required. Compaction Density test must be conducted by Certified Laboratory and submit to GIR.



### **8.2 Geotechnical - Deep Foundation**

#### **8.2.1 Piling Inspection**

Full time piling inspection such as timber and steel pile etc must be conducted by GIR. All piling record for refusal must be available to review such that the pile capacity can be certified.



#### **8.2.2 Sheetpile Installation**

Sheetpile installation as temporary / permanent support must be installed and inspected by Geotechnical Engineer



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### **8.3 Engineering FILL**

#### **8.3.1 Structural FILL**

Structural Fill (imported or non-native material) at and below the proposed foundation elevation must be compacted to density as specified by GIR and must be certified by qualified soil laboratory / testing company ☐

#### **8.3.2 Underslab FILL**

Underslab fill density must also be tested prior to placement of slab-on-grade concrete to the specified density as required by GIR. ☐

### **8.4 Slope Stability and Seismic Load**

#### **8.4.1 Slope Stability**

Evaluate the slope stability along the site and building perimeter for both seismic and static design conditions according to APEBC Guidelines dated November 2010. ☐

#### **8.4.2 Subsurface Stability**

Subsurface stability under seismic condition such as densification specified by GIR and tying of footing structurally must be accommodated by Structural Engineer in Record ☐

#### **8.4.3 Seismic Design Criteria**

The acceleration velocity design must be based on Nation Resources of Canada Seismic Hazard Criteria. ☐

### **8.5 Backfill**

#### **8.5.1 Backfill Material**

Backfill material for foundation perimeter must be well drained granular soil, such as crushed gravel with waterproof membrane for below grade structure ☐

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Client: Nu-Gen Projects Ltd.

Date: July 14, 2018

Our File No.: 218N551

### 8.5.2 Sensitive Structure

If sensitive structure is founded on the Backfill material such as Sand and Gravel compaction density as specified by GIR of the backfill material must be tested by certified testing company ☐

## 8.6 Permanent Dewatering

### 8.6.1 Foundation Drainage

For convention foundation drainage, perforated PVC pipe will be used to collect any surface gravity drained to city's storm system migrated and natural groundwater to a sump then ☐

### 8.6.2 Storm System

If City's storm system is higher than the sump elevation, pumping system must be installed with dual-pump and alarm system and may be with back up generator when power is unavailable during adverse conditions. Mechanical and Civil Engineer must be retained to design the system. ☐

### 8.6.3 Perforated Drainage

Underslab perforated drainage perforated PVC will be installed to improve the foundation drainage if groundwater table is higher than the slab elevation either seasonally or permanently ☐

### 8.6.4 Tanking

Tanking is also an option when the pumping system might not be capable to drain all below groundwater or foundation drainage system is not installed. Envelop Consultants must be retained for this option ☐

### 8.6.5 Retention Tank

Retention Tank with control valve may be required due to City's storm system limitation. Civil Engineer must be retained. ☐

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Our File No.: 218N551

## **8.7 Permanent Underpinning**

### **8.7.1 Underpinning Loading**

All underpinning loading must be reviewed and approved by Structural Engineer and GIR. ☐

### **8.7.2 Separation and Drainage**

Bond separation and drainage (above and below grade) at the interface of the underpinning area must be reviewed to ensure no water migrate to the underpinning structure. Envelop Consultant must be retained. ☐

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## Technical Memorandum



**To:** Krishan Anand  
1156038 BC Ltd.  
7495 Whelen Court  
Burnaby BC V5E 1X4  
**By Email:** NuGenprojects@gmail.com

**From:** Jason Barsanti, R.P.Bio.  
Barsanti Environmental Services Ltd.  
jason@barsantienviro.ca  
778-908-9711

**Re:** **REVISED: Watercourse Classification at 2222 Clarke St, Port Moody BC**

*April 3, 2020  
Rev. September 1, 2020  
Rev. January 20, 2021  
Project No. 19.0047*

### 1 Introduction

NuGen Projects, 1156038 BC Ltd. (the Client) has retained Barsanti Environmental Services Ltd. (Barsanti Environmental) to prepare a watercourse classification report on their project site at 2222 Clark St, Port Moody BC (the Site, Figure 1).

This January 20, 2021 revision supplies revised drawings in Appendix 1 and 2. It is understood that no changes to the RPEA resulted from the revised Stormwater Management Plan and Culvert Crossing designs supplied by Core Concept (pers. comm. Anthony Read, 2021-01-20)

This report provides the opinion of a Qualified Environmental Professional (QEP) on watercourse classification and habitat enhancement measures.

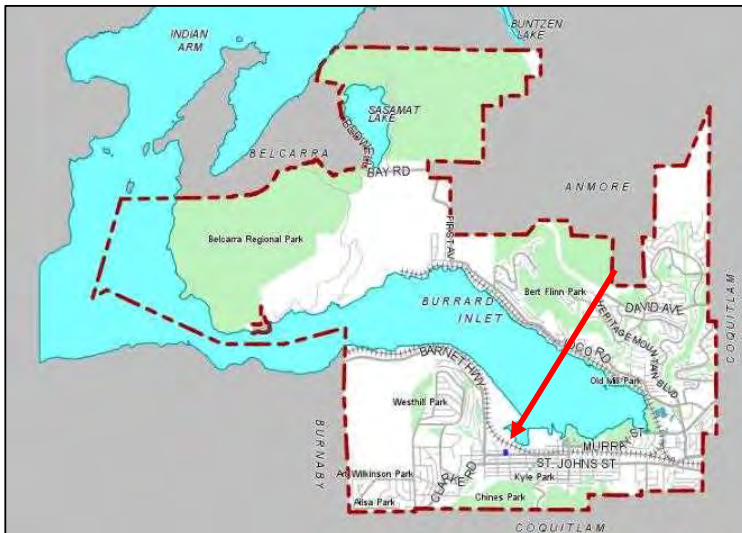


Figure 1. Location of 2222 Clarke St, the subject property, in Port Moody BC.

### 2 Limits of Assignment

- Our investigation is limited to ecological conditions – fish and wildlife habitat assessment.
- Our investigation is based on our visual inspection of the site and the surrounding area and from information obtained in publicly available resources. No sampling was conducted for this report.
- No design or review of proposed civil infrastructure works is within our scope or capacity.

# Considered at the Regular Council Meeting of May 10, 2022

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Watercourse Classification at  
2222 Clarke St., Port Moody BC



## 3 Methods

Barsanti Environmental reviewed Client supplied architectural drawings, a previously prepared watercourse classification report<sup>1</sup> and Port Moody staff comments on the Client's proposal. Watercourse mapping, available on Port Moody GIS Webmap, and Moody Centre Stormwater Management Servicing Plan<sup>2</sup> (referred to here as, KWL-10-19) were reviewed. The project was discussed with Karen Devitt, Environmental Coordinator, City of Port Moody. Port Moody's streamside protection bylaw was reviewed. I attended the site on December 17, 2019. Observations were recorded with notes and pictures.

## 4 Observations

### 4.1 Desktop Analysis

Two watercourses are mapped within 30 m of the project site. Ottley Creek and an unnamed Ditch (Figures 2 and 3).

The headwaters of Ottley Creek occur in Chines Park, a large natural area approximately 1.6 km south of the site. Ottley Creek bifurcates in an urbanized part of Port Moody on its course north towards Burrard Inlet. The west fork, the smaller of the two branches of Ottley Creek, continues north and flows through 2214 Clarke St., the second lot west of the subject property. At Vintner Street, Ottley Creek crosses under Vintner Street through a pipe and continues flowing south.

A roadside ditch on the north side of Vintner Street is the second watercourse encumbering the subject property. It flows east adjacent to the subject property and eventually through a designated Environmentally Sensitive Area (ESA) and into Burrard Inlet. The ditch length across the site is approximately 20 m of which approximately 4.5 m is conveyed through a pipe. The ditch was assessed in KWL-10-19 and described as, "providing groundwater interception, surface water capture from the adjacent road and driveways, storage, and infiltration of stormwater".

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<sup>1</sup> SER Environmental Management, Technical Report. April 13, 2018.

<sup>2</sup> Kerr Wood Leidal. Technical Report. KWL Project No. 0310.055. October 2019.

# Considered at the Regular Council Meeting of May 10, 2022

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Watercourse Classification at  
2222 Clarke St., Port Moody BC



Figure 2. Watercourse map illustrating Ottley Creek. Image obtained from Port Moody webmap, 2020-01-14.



Figure 3. Watercourse mapping in the neighbourhood of the subject property. Image obtained from KWL-10-19.

Ottley Creek is a Class B watercourse; class B watercourses convey food and nutrients but fish presence is not known. The unnamed ditch is a Class B Ditch.

# Considered at the Regular Council Meeting of May 10, 2022

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Watercourse Classification at  
2222 Clarke St., Port Moody BC



## 4.2 Site Visit

The subject property occurs within a residential / commercial area. The unnamed ditch was flowing during the site visit. The ditch daylights from underground storm water infrastructure at the corner of Vintner and Douglas Street, five lots to the west of the site. It flows east and collects water from Ottley Creek before flowing past the site. The ditch profile is relatively small at approximately 1.5 m or less width.

A culvert is present in the ditch at the site to provide vehicle access from Vintner Street. The culvert is on the west side of the lot; it appears to be approximately 4.5 m long and 300 mm diameter.

On the site, herbaceous weed and lawn species are the only plants in the ditch and its' riparian area. Please refer to selected site photos in Appendix 1.

## 5 Discussion

Recommendations in SER for Ottley Creek called for a 10.0 m Streamside Protection and Enhancement Area (SPEA) on Ottley Creek per terms of the detailed methodology in the Riparian Areas Regulation (RAR, now called RAPR). I agree with that assessment. At 10.0 m the SPEA does not encumber the subject property.

The roadside ditch conveys groundwater interception and surface water from roads and driveways, it has no natural headwaters or springs, there are no fish present in the ditch, but the ditch conveys food and nutrients downstream. It is described as a Class B Ditch by Port Moody and per Port Moody streamside protection policy, a 5.0 m Riparian Protection and Enhancement Area (RPEA) from top-of-bank (TOB) applies to this ditch. According to methodology in the RAPR the SPEA on this ditch 2.0 m from TOB.

It is understood that the Client is proposing to remove the existing culvert to relocate the driveway access to the center point of the lot. The Client is proposing to use an open bottom culvert for the crossing. The Client supplied the proposed culvert design, please see Appendix 2. The Client will make an application for Notification of instream works under Section 11 of the *Water Sustainability Act* (WSA) to Ministry of Forests, Lands, Natural Resource Operations and Rural Development (FLNRORD) upon approval of the proposed crossing design and specs by Port Moody.

## 6 Proposed Works

The Client is proposing to remove the existing culvert and replace it with a 6.5 m, open bottom crossing centered on the lot. Please see the Client supplied design drawing in Appendix 2.

## 7 Habitat Balance

**Streamside Regulations on Ditches in Port Moody:** ditches in Port Moody require a 5.0 m Riparian Protection and Enhancement Area (RPEA).

**Existing conditions:** the ditch on the subject property consists of 15.5 m open channel and 4.5 m piped channel which corresponds to a RPEA of 77.5 m<sup>2</sup>. Vegetation in the RPEA is currently lawn.

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2222 Clarke St., Port Moody BC



**Proposed conditions:** Remove the existing 4.5 m pipe culvert and replace it with a 6.5 m open bottom culvert centered on the lot plant native species throughout the RPEA and below TOB.

**Proposed Mitigation Works:** The Client is proposing habitat enhancement planting throughout the RPEA for a planted area of 67.5 m<sup>2</sup>. Additional planting is proposed on the north side of the ditch if accepted by Port Moody. Enhancement planting is proposed through the restoration works area in the ditch amounting to approximately 45.5 m<sup>2</sup> planting. Please refer to the landscape plan Appendix 3 for an illustrative description of these measures.

## Result:

- The driveway crossing is wider by 2.0 m which translates into a loss of 10 m<sup>2</sup> RPEA, an impact.
- 4.5 m closed pipe culvert is removed and replaced with an open bottom crossing, a benefit.
- 67.5 m<sup>2</sup> RPEA that is currently lawn is improved with native herb, shrub, and tree species, a benefit.
- 45.5 m<sup>2</sup> habitat below TOB is improved with native hydrophytic species, a benefit.
- Additional planting is proposed on the north bank if accepted by Port Moody, a benefit.

## 8 Proposed Mitigation and SPEA Enhancement Measures

### 8.1 Planting

Riparian planting at the ditch bank will help to enhance water quality through shading and insect and litter drop.

Riparian enhancement planting is recommended to occur in the following manner.

**Shrubs:** Red-osier Dogwood (*Cornus sericea*), Oregon Grape (*Mahonia aquifolium*), Red-flowering Currant (*Ribes sanguineum*), Baldhip Rose (*Rosa gymnocarpa*), Salal (*Gaultheria shallon*), Western Sword Fern (*Polystichum munitum*), Evergreen Huckleberry (*Vaccinium ovatum*).

Shrubs need to be obtained in 1-gallon pots and planted at 0.5 m on-center spacing.

**Trees:** Species in the tree layer should be selected from: Vine Maple (*Acer circinatum*), Pacific Willow (*Salix lucida* spp. *lasiandra*), Pussy Willow (*Salix discolor*), Casacara (*Rhamnus purshiana*) Pacific Crabapple (*Malus diversifolia*) and Choke Cherry (*Prunus virginiana*). A minimum of three different species should be planted at 1.5 m spacing on-center. Tree stock must be a minimum of 1.5 m height at first branch.

All plants must be certified native BC species and must retain a Nursery attached identification label after planting.

As these plants mature, they will provide water quality enhancement through temperature modulation by shading in the summer as well as nutrients through litter and insect drop. A secondary benefit of the plants in this list is the development of food and nesting opportunities for songbirds.

It is recommended that planting occur in the early spring or autumn months to help prevent desiccation from drying out. Irrigation is recommended during the dry summer months.

# Considered at the Regular Council Meeting of May 10, 2022

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Watercourse Classification at  
2222 Clarke St., Port Moody BC



A thick layer of bark mulch is recommended over the entire area to help suppress herbaceous weeds. Weeds are fast growing and, if not kept in check, commonly overgrow, and suffocate young woody species.

One-hundred percent survival of plant stock over three years is commonly mandated. Any losses should be replaced with a like species.

Fencing is recommended to help ensure the planted area is protected from human encroachment and trampling.

## 8.2 Instream

The watercourse is not a fish bearing stream therefore the instream works may occur outside of the fish window, on the condition that the channel is dry during the construction works.

The following erosion and sediment control (ESC) measures are required.

- The works should be scheduled to occur during an extended period of dry weather.
- Disturbance of existing vegetation should be as small as possible while allowing the works to be completed safely.
- Lining the ditch bed with clean, washed river rock and sand will help control sediment transport.
- Ditch banks should be seeded with a seed mix that is certified all-native species and then, covered with wood-fibre roll matting.

Additional Terms and Conditions may be ordered by FLNRORD through the approval of Notification of instream works under Section 11 of the WSA.

## 9 Limitations

Barsanti Environmental Services Ltd. will conduct this project and prepare our reports in a manner consistent with the level of care normally exercised by environmental professionals currently practicing in the area under similar conditions and budgetary constraints. Barsanti Environmental Services Ltd. offers no other warranties, either expressed or implied. Barsanti Environmental Services Ltd. will prepare our reports for your use for the purposes for which they are commissioned and for use by government agencies regulating the specific activities to which they pertain. It will not be reasonable for other parties to rely on the observations or conclusions of the reports and you may not give, lend, sell, or otherwise make available the report or any portion to any other party without Barsanti Environmental Services Ltd. express written consent. The information supplied will provide guidance and recommendations in accordance with the most current guidelines and best management practices but ultimately it is up to the Client to apply them.

## Considered at the Regular Council Meeting of May 10, 2022

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Watercourse Classification at  
2222 Clarke St., Port Moody BC



### 10 Closing

We trust that the information supplied in this document meets your needs. Should more information or clarification on any part of this report be required please feel free to contact me.

#### **BARSANTI ENVIRONMENTAL SERVICES LTD.**

**Jason Barsanti, R.P.Bio,**  
**Principal Biologist**

This document is a digital copy. A hardcopy of this document, with official signature and stamp will be provided immediately upon request to the author.

# Considered at the Regular Council Meeting of May 10, 2022

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Watercourse Classification at  
2222 Clarke St., Port Moody BC



## 11 Appendix 1: Site Photos

The following site photos were obtained on December 17, 2019.



**Photo 1. Viewing south at 2222 Clark Street from the north verge of Vintner Street. Not existing driveway on west side of the lot and absence of riparian vegetation.**



**Photo 2. Viewing east at the ditch adjacent to the subject property.**

## Considered at the Regular Council Meeting of May 10, 2022

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Watercourse Classification at  
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**Photo 3. Viewing pipe inlet for conveying Ottley Creek under Vintner Road, and roadside ditch beside Vintner Street.**

## Considered at the Regular Council Meeting of May 10, 2022

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Watercourse Classification at  
2222 Clarke St., Port Moody BC

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### 12 Appendix 2: Proposed Driveway Crossing

Culvert design plan. Supplied by Client.

Please see next page.



## Considered at the Regular Council Meeting of May 10, 2022

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Watercourse Classification at  
2222 Clarke St., Port Moody BC



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### 13 Appendix 3: Proposed Restoration Area Planting

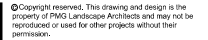
Design plan supplied by PMG Landscape Architects through the Client.

Please refer to Drawing L3.

Please see next page.



## 526








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NO.	DATE	REVISION DESCRIPTION	DR.
9	21 MAR 21	UPDATE RFEA DIVERGENCE	CGG
8	20 MAR 20	UPDATE PER NEW A BORDERS REPORT	CGG
7	20 MAR 20	UPDATE RFEA PER COMMENTS	CGG
6	20 MAR 20	UPDATE RFEA/TIE IN REPLACEMENT	CGG
5	20 MAR 20	UPDATE PER NEW SITE PLAN	CGG
4	29 JUN 07	UPDATE DRAIN STIFF DETAIL	CGG
3	19 MAR 23	UPDATE AND DETAIL	CGG
2	BRUN 22	NEW SITE PLAN	PI
1	16 JUN 18	DESIGN COMPLET	CGG

CLIENT:

## PMG PROJECT NUMBER: 18-121

KEY	QTY	BOTANICAL NAME	COMMON NAME	PLANTED SIZE / REMARKS
	2	ACER CIRCINATUM	VINE MAPLE	7CM CAL, B&B
	2	ACER RUBRUM 'ARMSTRONG'	COLUMNAR ARMSTRONG MAPLE	7.0CM CAL, 2M STD, B&B
	2	CORNUS KOUSA 'SATOMI'	PINK KOUSA DOGWOOD	7CM CAL, B&B
	2	PIZA OMORICA 'BRUNS PENDULA'	WEEPING BRUNS SENBIAN SPRUCE	1.5M HT, B&B
	18	SUXUS MICROPHYLLA 'WINTER GEM'	LITTLE-LEAF BOX	93 POT, 40CM
	43	LONICERA PILEATA	BOXLEAF HONEY-SUCKLE	92 POT, 30CM
	2	OSMANTHUS S. BURWODDII	BURWODD OSMANTHUS	92 POT, 30CM
	93	SARCOCODA HOOKERIANA VAR. HUMILES	HIMALAYAN SWEET BOX	92 POT, 30CM
	31	SHIMADA REYESIANA	DWARF SHIMADA	92 POT, 25CM
	76	THUIS OCCIDENTALIS 'SMARAGD'	EMERALD GREEN CEDAR	1.8M HT, B&B
	61	CAREX OSHIMENSES 'EVERGOLD'	EVERGOLD JAPANESE SEDGE	91 POT
	24	HEUCHERA MACRANTHA 'PALACE PURPLE'	CORAL BELLS; PURPLE-LEAF	15CM POT
	8	ATHYRIUM NIPONICUM PICTUM 'REGAL RED'	REGAL RED JAPANESE PAINTED FERN	91 POT, 30CM
	34	POLYSTICHUM MUNITUM	WESTERN SVOND FERN	91 POT, 30CM

[illegible]

**10 UNIT TOWNHOUSE DEVELOPMENT**

2222 CLARKE STREET  
PORT MOODY

DRAWING TITLE:

SHRUB PLAN  
MAIN LEVEL

DATE: 18.FEB.21 DRAWING NUMBER:

SCALE: 3/16" = 1'-0"

DRAWN:

DESIGN:

CHKD: PCM

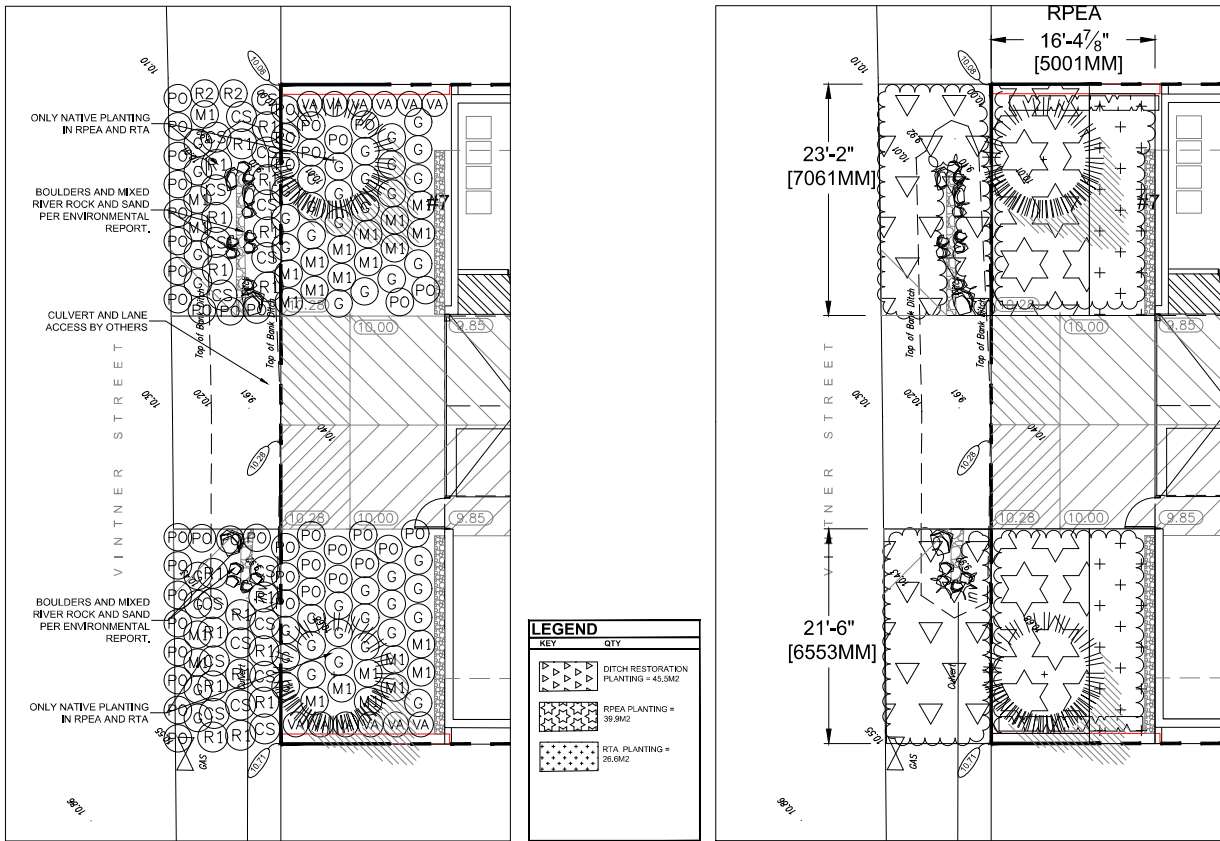
1. *Journal of the American Medical Association*, 2000; 284: 2689-2695.

PMG PROJECT NUMBER

PROJECT NUMBER

# Considered at the Regular Council Meeting of May 10, 2022

527



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SEAL:

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CLIENT:

PROJECT:  
10 UNIT TOWNHOUSE  
DEVELOPMENT  
2222 CLARKE STREET  
PORT MOODY

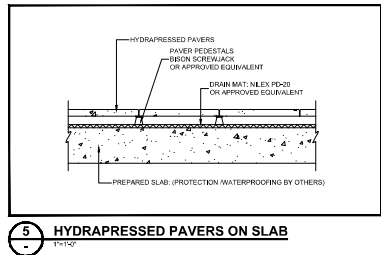
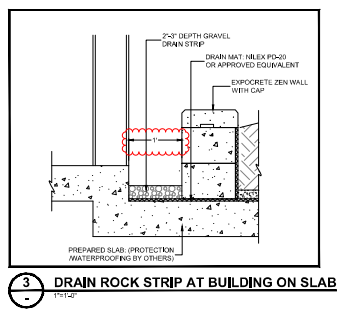
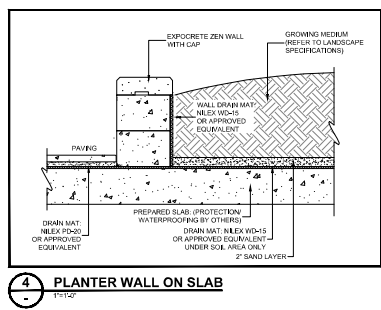
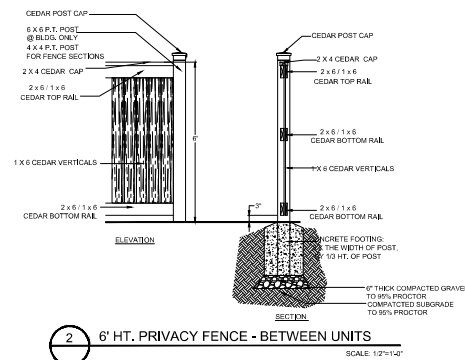
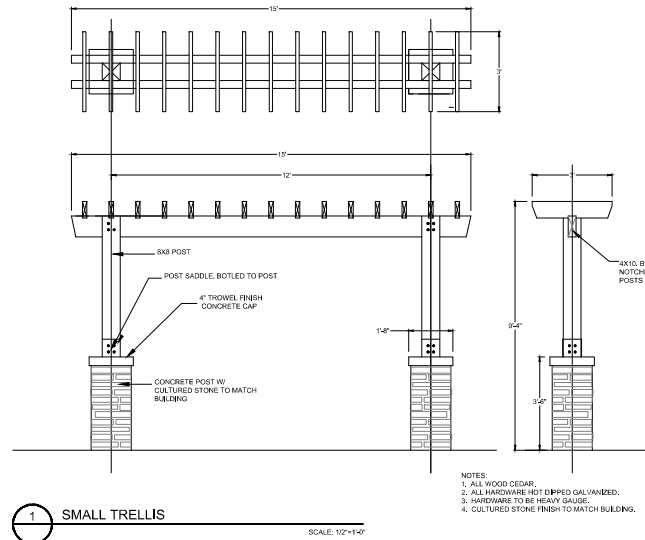
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**ENVIRONMENTAL  
AREA SHRUB PLAN**

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OF 4

**L3**

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26	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
27	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
28	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
29	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
30	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
31	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
32	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
33	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
34	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
35	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
36	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
37	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
38	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
39	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
40	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
41	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
42	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
43	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
44	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
45	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
46	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
47	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
48	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
49	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
50	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
51	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
52	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
53	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
54	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
55	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
56	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
57	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
58	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
59	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
60	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
61	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
62	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
63	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
64	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
65	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
66	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
67	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
68	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
69	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
70	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
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72	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
73	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
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81	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
82	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
83	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
84	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
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86	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
87	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
88	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
89	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
90	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
91	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
92	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
93	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
94	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
95	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
96	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
97	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
98	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
99	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP
100	20.06.21	ISSUE FOR NEW EXISTING REVIEW	CDP

PROJECT:  
10 UNIT TOWNHOUSE  
DEVELOPMENT  
2222 CLARKE STREET  
PORT MOODY

DRAWING TITLE:  
**LANDSCAPE  
DETAILS**

DATE: 18.FEB.21 DRAWING NUMBER:  
SCALE: 1:500  
DRAWN:  
DESIGN:  
CHECK: PCM OF 4

18121-6-2P PMG PROJECT NUMBER: 18-121

# Multi-Family Sustainability Report Card

## Purpose

The Sustainability Report Card recognizes that developers, builders, designers, and others proposing changes to the built environment have an important role in creating a sustainable community. Sustainability involves stewardship of land and environmental resources, as well as green building and a focus on design elements that bring people together and help communities flourish economically, socially, and culturally. Port Moody encourages innovative thinking in community design to achieve a more sustainable community.

To this end, the Report Card is a requirement for rezoning, development permit, and heritage alteration permit applications. The Report Card identifies performance measures based on community sustainability values: these measures are used to evaluate development proposals. The Report Card is intended to be a summary of overall project sustainability. It is a tool to be integrated with all other development approval requirements.

## Process

There are six steps to follow in completing the Sustainability Report Card process:

1. Make a development inquiry to Development Services regarding your proposed rezoning, development permit, or heritage alteration permit. Staff will provide you with a hard copy of the Sustainability Report Card and provide a weblink to [portmoody.ca/SRC](http://portmoody.ca/SRC) where you can find a fillable PDF version of the Report Card.
2. Attend a pre-application meeting with City staff to discuss your proposal. The Planner will determine if the Sustainability Report Card is a document that must be submitted with your application.
3. If required, complete a Report Card by filling in the appropriate information that applies to your particular application and submit the completed Report Card (saved version of online fillable PDF or hard copy) to the appropriate City staff ([sustainabilityreportcard@portmoody.ca](mailto:sustainabilityreportcard@portmoody.ca) or deliver to City Hall Planning Department at 100 Newport Drive), along with a completed land use application.
4. The Planner will review the Report Card for completeness and accuracy and forward to staff in various departments for feedback. The Planner will determine your preliminary score and discuss the results of the staff review with you. You will then have an opportunity to improve your score with respect to the sustainability of your proposal and resubmit an updated Report Card.
5. The Planner will make comments, determine your final score, and prepare the Project Report Card Summary. The Summary will be included in the land use reports that are distributed to the Advisory Design Panel, Community Planning Advisory Committee, and Council.
6. If your application is approved by Council, your final Report Card is maintained in the development file and a copy is provided to the City's Building Division.

## Instructions

- Your Report Card must contain sufficient detail to ensure each measure can be evaluated. To do this, make reference to the appropriate plans, drawings, and reports that demonstrate how the performance measure is met.
- The relevance of the questions will depend on the nature and scope of your project, so not all questions will be applicable to all projects.
- Some measures are marked 'EARLY STAGE'. This indicates that these measures must be considered in the design phase as it is unlikely they can be added to a proposal later on.

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Italicized words are in the [Glossary](#) at the back of this document.

## Considered at the Regular Council Meeting of May 10, 2022

530

- Similarly, some measures are marked 'BASELINE'. Although the Report Card is not a pass or fail test of development applications, it does set a minimum score to indicate the City's minimum expectations. Items labelled 'BASELINE' count toward a minimum score as they are considered to be low cost and readily achievable.
- Italicized terms are defined in the Glossary at the end of the Report Card document.
- Refer to the Resources section for links to Internet resources relevant to measures in the Report Card.

### Scoring

- Performance measures are assigned weighted scores from 1 to 10 to indicate their significance based on: (1) level of difficulty to integrate into project design; (2) order-of-magnitude cost added to the project; (3) degree of effectiveness for increasing the overall project sustainability; (4) identified community priority in the Official Community Plan; and (5) level of urgency for Port Moody in terms of achieving community sustainability goals.
- City staff score the completed Report Card based on the principle of best achievable on each site for each performance measure. Where possible, points for achieving various means are indicated. In other cases, the number of means to achieve a performance measure may exceed the total points possible for an item. In this case, the Planner will make a fair assessment of the project's performance for this measure with respect to the conditions of the site as a percentage and translate this to the possible score.
- Only whole number scores will be assigned. This will be achieved by rounding to the nearest whole number. For example, if overall performance for a measure is deemed to be about 80 per cent and the possible score is out of 4, then a score of 3 points out of 4 will be assigned.
- The Report Card is an iterative process with the applicant. The applicant has an opportunity to comment and make changes to their proposal before the scores are considered final and shared with public advisory bodies and Council.
- Additional space is provided for the applicant to address innovations and constraints not captured elsewhere in the Report Card. These items are not scored, but are given specific mention on the Project Report Card Summary.
- Staff will review your completed Report Card and provide feedback before your project is scored to give you the opportunity to achieve the highest score possible.

### Monitoring

In general, the information required from the applicant for the Sustainability Report Card is similar to the kind of information required for a typical development application. However, to ensure accountability, you can expect the City to request additional information, such as: photos of installed systems or products, design drawings, professional reports, copies of receipts, or other records that can be used to verify the implementation of the selected sustainability measures. We encourage you to provide as much information as possible to assist City staff in their review of your development proposal.

### Public Information

The public may request a review of any completed Report Card related to a development application. Copies of the Report Card are maintained by the Planning Division. The Development Services Department makes Report Cards available following completion of the project.

### Property and Applicant Information

Applicant Jason Yoo	Telephone 604-420-2233 ext.423	Email jason@maraarch.com
Registered Owner 1156038 B.C. Ltd.	Project Address 2222 Clarke Street, Port Moody	
Proposed Use Multi Family Stacked Townhome		

Total Floorspace **912.4** m<sup>2</sup>

## Considered at the Regular Council Meeting of May 10, 2022

### CULTURAL SUSTAINABILITY SECTION

How will the <sup>531</sup>project contribute to Port Moody's status as 'City of the Arts'?

#### Arts

##### Performance Measure Description and Scoring

C1

Project includes public art in publicly accessible or publicly owned space (3 points, +1 bonus point if a Public Art Consultant is used).

**OR** Project provides an in lieu financial contribution to the City's Public Art Reserve Fund (3 points).

See links in Resources under "Examples of Good Public Art".

##### Applicant Explanation and Reference to Plans, Drawings, and Reports

<p>If <b>yes</b>, describe: Project provides an in lieu financial contribution to the city's Art Revenue Fund</p>	<p><b>Staff Comments</b></p>
<p>Public Art Consultant:</p>	
<p>Plan reference:</p>	

Bonus Score  /1      Score  /3

### CULTURAL SUSTAINABILITY SECTION

How will the project contribute to Port Moody's status as 'City of the Arts'?

#### Arts

##### Performance Measure Description and Scoring

C2

Project supports Port Moody's desire to be a "City of the Arts" by integrating artistic design into the site or building form or functionality (2 points).

Examples:

- Creative stormwater management features.
- Creative interaction of the project with the public.
- Artistic panels in entry foyer.

##### Applicant Explanation and Reference to Plans, Drawings, and Reports

<p>Describe: REFER TO NEXT PAGE FOR COMMENT.</p>	<p><b>Staff Comments</b></p>
<p>Plan reference: A100/A102</p>	

Score  /2

**C2 Arts Performance Measure Description and Scoring**

Ground level, street oriented patio that is designed to be interactive with Clarke street.

Building Form is inspired the 2 architectural styles, Arts and Craft and Tudor' that are prevalent in Port Moody. Exterior colours are chosen to compliment neighbouring properties. 2units are adaptable to increase functionality for growing generation.

Entryway 'hut' structure is artistic and eye catching.

Project is designed to Chines Integrated Storm Water Management.

Creative Storm Water features include reviving the ditch with new plantation, over 400 sf of native shrub and flower planting, and an open-bottom culvert at greater expense.

## Considered at the Regular Council Meeting of May 10, 2022

### CULTURAL SUSTAINABILITY SECTION

How will the <sup>533</sup>project contribute to Port Moody's status as 'City of the Arts'?

#### Heritage

##### Performance Measure Description and Scoring

C3

Project includes reusing an existing heritage structure with heritage value through *heritage restoration* or *heritage rehabilitation* (4 points).

Where the preservation of a heritage structure in its original location cannot be accommodated, this may include re-location.

See *Standards and Guidelines for the Conservation of Historic Places in Canada*: [historicplaces.ca](http://historicplaces.ca)

##### Applicant Explanation and Reference to Plans, Drawings, and Reports

Describe: N/A	Staff Comments
Plan reference:	

Score  /4

### CULTURAL SUSTAINABILITY SECTION

How will the project contribute to Port Moody's status as 'City of the Arts'?

#### Heritage

##### Performance Measure Description and Scoring

C4

Project includes a *statement of significance* prepared by a heritage conservation specialist where potential heritage value is observed (2 points). Where warranted, project includes a heritage conservation plan prepared by a heritage conservation professional (+2 bonus points, where applicable).

See *Standards and Guidelines for the Conservation of Historic Places in Canada*: [historicplaces.ca](http://historicplaces.ca)

##### Applicant Explanation and Reference to Plans, Drawings, and Reports

Report title: N/A	Staff Comments
Heritage Consultant:	

Bonus Score  /2 Score  /2

## Considered at the Regular Council Meeting of May 10, 2022

### CULTURAL SUSTAINABILITY SECTION

How will the <sup>534</sup>project contribute to Port Moody's status as 'City of the Arts'?

#### Heritage

##### Performance Measure Description and Scoring

C5

Project salvages materials or artefacts from a historic place, or reuses materials or artefacts from architectural/landscape salvage in a manner which supports the authenticity of the site's *character-defining elements*.

##### Applicant Explanation and Reference to Plans, Drawings, and Reports

Details: N/A	<b>Staff Comments</b>
Plan reference:	

Score N/A /3

### CULTURAL SUSTAINABILITY SECTION

How will the project contribute to Port Moody's status as 'City of the Arts'?

#### Arts

##### Performance Measure Description and Scoring

C6

Project designates space for the arts or creative enterprise to be retained for the lifetime of the project.  
 Ex. artist studio, gallery space, dance studio, indoor/outdoor theatre, live-work units, plaza, etc.

##### Applicant Explanation and Reference to Plans, Drawings, and Reports

<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px 5px; margin-right: 5px;">100.8</div> <div style="margin-right: 5px;">meters<sup>2</sup>/</div> <div style="border: 1px solid black; padding: 2px 5px; margin-right: 5px;">1085</div> <div>feet<sup>2</sup></div> </div>	<b>Staff Comments</b>
Description of space: Units are designed with large dens or open space to allow 'Work from home' and city's newly proposed zoning (in progress) for multi family units called 'Home based business with low impact' similar to 'Live-Work' concept.  Covered amenity space is provided below Unit 104 which allows residents to utilize the amenity space even during rainy winter seasons.  Also, Monetary Contribution to City's Artwork Reserve per 2015 Public Artwork Policy will be made.	

Score 2 /4

## Considered at the Regular Council Meeting of May 10, 2022

### CULTURAL SUSTAINABILITY SECTION

How will the <sup>535</sup>project contribute to Port Moody's status as 'City of the Arts'?

#### Complete Community Elements

##### Performance Measure Description and Scoring

C7

Project improves the *streetscape* beyond minimum City requirements by integrating lasting creative elements and demonstrating effort to optimize the project's *beautification* impact.

Examples:

- Restores the frontage of an existing building in Historic Moody Centre.
- Proposes artistic paving treatments in the public realm.
- Adds creativity to functional elements of the *streetscape*.
- Benches, bike rack, planter, lighting, etc. upgrades.

##### Applicant Explanation and Reference to Plans, Drawings, and Reports

Details:

REFER TO NEXT PAGE FOR COMMENT.

Staff Comments

Plan reference:

A112 & Landscape set L1-L4

Score 2 /2

### CULTURAL SUSTAINABILITY SECTION

How will the project contribute to Port Moody's status as 'City of the Arts'?

#### Heritage

##### Performance Measure Description and Scoring

C8

Project will apply to be added to the City's Heritage Register.

##### Applicant Explanation and Reference to Plans, Drawings, and Reports

☐ Yes ☐ No ☒ N/A

Details:

Staff Comments

Score N/A /3

**C7 Performance Measure Description and Scoring**

The building concept relates closely to Port Moody's heritage Tudor and Arts&Crafts style to create harmonious street scape with existing heritage buildings nearby.

Street scape is further upgraded with planters and low shrubs that provides level of privacy for users yet still offer visual connection and interest to the city street. In addition, streets light will be replaced with L.E.D., existing driveway letdown will be replaced with sidewalk & curb/gutter, 3m wide cast concrete sidewalk for future bike lane, 1.5m wide sodded front boulevard with street trees, and traffic on Clark street will be improved as vehicle entrance is moved to Vintner Street.

On Vintner street, new paving, curb gutter will be proposed and new landscape in the ditch, for much better street appeal.

Two units at ground level have been designed as adaptable suites.

These units could be used for Work and Live.

## Considered at the Regular Council Meeting of May 10, 2022

### CULTURAL SUSTAINABILITY SECTION

How will the project contribute to Port Moody's status as 'City of the Arts'?

#### Innovation

#### Performance Measure Description and Scoring

C9 Cultural sustainability aspects not captured above.

#### Applicant Explanation and Reference to Plans, Drawings, and Reports

Innovative design captures higher density, keeping heritage building facade and added street appeal.

#### Staff Comments

### CULTURAL SUSTAINABILITY SECTION

How will the project contribute to Port Moody's status as 'City of the Arts'?

#### Constraints

#### Performance Measure Description and Scoring

C10 Unique site aspects that limit cultural sustainability achievement.

#### Applicant Explanation and Reference to Plans, Drawings, and Reports

Site has size limitations as it can not be combined with neighbouring properties, which have a heritage status or a creek. There is a ditch on north side of the property, that requires Riparian set back of 5m. Inspire of these, the innovative stack home design will provide more affordable homes with great design.

#### Staff Comments

## Cultural Sustainability Score Summary

### Score

Total Cultural Pillar Points (Total Points Available – Not Including Bonus Points)

23

Total

Total Cultural Points Not Applicable  
(Total Points for Items Not Relevant to this Application)

12

n/a

Maximum Achievable Score  
(Total Cultural Pillar Points Minus Total Cultural Points Not Applicable)

11

Maximum

Cultural Pillar Minimum Score  
(Sum of Applicable Baseline Items)

5

Cultural Baseline

Total Points Achieved  
(Total Points Achieved for Applicable Items for this Application)

8

Total Cultural Points

Cultural Pillar Score  
(Total Points Achieved/Maximum Achievable Score)

8

Total Cultural Points

11

Max

73

Percent

## Considered at the Regular Council Meeting of May 10, 2022

### ECONOMIC SUSTAINABILITY SECTION

How will the <sup>538</sup>project contribute to a stronger local economy?

#### Land Use/Employment

#### Performance Measure Description and Scoring

EC1

Supports walking to shops and services by improving the circulation and connectivity of the site to the retail shops and services of the relevant neighbourhood centre.

See Map 1: Overall Land Use in the City's Official Community Plan: [Map 1: Overall Land Use Plan](#)

#### Applicant Explanation and Reference to Plans, Drawings, and Reports

Existing:	Staff Comments
Use(s): Residential	
Number of jobs on-site relating to this use in operation: 0	
Proposed:	
Use(s): Multi Family with potential of 'Work from Home' and 'Home based business with low impact'	
Number of jobs estimate: 8	
Assumptions: City will pass the new zoning for 'home based business with low impact'	

Score 2 /3

### ECONOMIC SUSTAINABILITY SECTION

How will the project contribute to a stronger local economy?

#### Land Use

#### Performance Measure Description and Scoring

EC2

Provides more intensive use of land to the allowable housing density that supports local businesses.

#### Applicant Explanation and Reference to Plans, Drawings, and Reports

Describe the diversification and how it is appropriate to this particular location: More number of units are proposed on a single family lot, creating a sustainable living and the increase density will allow increased customer flow at local businesses. The project also satisfies the need of ever increasing housing demand.	Staff Comments
--	----------------

Score 1 /1

Considered at the Regular Council Meeting of May 10, 2022

**ECONOMIC SUSTAINABILITY SECTION** *How will the project contribute to a stronger local economy?*

## Land Use/Employment

### Performance Measure Description and Scoring

EC3 Results in net increase in the City's property tax base.

See Map 1: Overall Land Use in the City's Official Community Plan: [Map 1: Overall Land Use Plan](#)

### Applicant Explanation and Reference to Plans, Drawings, and Reports

<b>Existing:</b>	Staff Comments
Building type: Single Family Dwelling	
FSR: NA	
<b>Proposed:</b>	
Building type: Multi Family Stacked Townhome	
FSR: 1.24	

Score 3 /3

## ECONOMIC SUSTAINABILITY SECTION *How will the project contribute to a stronger local economy?*

## Land Use

### Performance Measure Description and Scoring

EC4 Project redevelops and rehabilitates a *brownfield* site.

### Applicant Explanation and Reference to Plans, Drawings, and Reports

Describe: N/A	Staff Comments
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Score	N/A	/3
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## Considered at the Regular Council Meeting of May 10, 2022

### ECONOMIC SUSTAINABILITY SECTION *How will the project contribute to a stronger local economy?*

#### Innovation

#### Performance Measure Description and Scoring

EC5 Economic sustainability aspects not captured above.

#### Applicant Explanation and Reference to Plans, Drawings, and Reports

Increased taxes for overall development.

Increased revenue to City due to business licenses needed by home based businesses.

Affordable housing due to smaller foot print of units. Accessible units for growing-older population

#### Staff Comments

### ECONOMIC SUSTAINABILITY SECTION *How will the project contribute to a stronger local economy?*

#### Constraints

#### Performance Measure Description and Scoring

EC6 Unique site aspects that limit economic sustainability achievement.

#### Applicant Explanation and Reference to Plans, Drawings, and Reports

In spite of size limitations, property will be developed to full sustainability achievement allowed by the OCP.

#### Staff Comments

### Economic Sustainability Score Summary

#### Score

Total Economic Pillar Points (Total Points Available – Not Including Bonus Points)

10

Total

Total Economic Points Not Applicable  
(Total Points for Items Not Relevant to this Application)

3

n/a

Maximum Achievable Score  
(Total Economic Pillar Points Minus Total Economic Points Not Applicable)

7

Maximum

Economic Pillar Minimum Score  
(Sum of Applicable Baseline Items)

7

Economic Baseline

Total Points Achieved  
(Total Points Achieved for Applicable Items for this Application)

6

Total Economic Points

Economic Pillar Score  
(Total Points Achieved/Maximum Achievable Score)

6

Total  
Economic  
Points

7

Max

86

%  
Percent

## Considered at the Regular Council Meeting of May 10, 2022

### ENVIRONMENTAL SUSTAINABILITY SECTION <sup>541</sup>How well does the project minimize the demands on the environment?

#### Site Context | Ecology

#### Performance Measure Description and Scoring

EN1 Project protects and enhances an Environmentally Sensitive Area (ESA) as designated on Map 13 in the City's Official Community Plan, i.e. provides positive net benefit.

See [Map 13: Environmentally Sensitive Areas](#) and [Appendix 2: Development Permit Area Guidelines](#) in the Official Community Plan.

#### Applicant Explanation and Reference to Plans, Drawings, and Reports

<b>Type of ESA:</b> <input type="radio"/> High ESA <input type="radio"/> Medium ESA <input type="radio"/> Low ESA <input type="radio"/> 30m Stream Buffer (High Value) <input type="radio"/> Special Feature (High Value)	<b>Staff Comments</b>
<b>Features/Species of Value:</b> N/A	
<b>Means of Protection:</b> <input type="radio"/> Covenant <input type="radio"/> Dedication <input type="radio"/> Monitoring	
<input type="radio"/> Other:	
<b>Means of Improvement of ESA:</b> N/A	

Score N/A /4

## Considered at the Regular Council Meeting of May 10, 2022

### ENVIRONMENTAL SUSTAINABILITY SECTION <sup>542</sup>How well does the project minimize the demands on the environment?

#### Site Context | Ecology

#### Performance Measure Description and Scoring

- EN2 Project provides bird-friendly development through landscaping that provides habitat to native species and building design that reduces bird collisions.

See [Vancouver Bird Strategy](#)

#### Applicant Explanation and Reference to Plans, Drawings, and Reports

List all elements that reduce the impact that urbanization has on birds for this project:

Landscaping finish includes assortment of shrubs that support bird life with persistent winter fruits such as :  
Oregon Grape, Currant, Rose Hips, Salal and Huckleberry.

Existing trees on Clarke Street, and added new tall trees on Vintner Street will provide hindrance for bird-window collisions.

Lawn on north side near ditch on property will be replaced by native trees, shrubs, plants and flowers, removing any need for pesticides and chemicals for betterment of wildlife.

Rooftop patios will encourage residents to create garden for wild life

#### Staff Comments

Score  /3

### ENVIRONMENTAL SUSTAINABILITY SECTION <sup>542</sup>How well does the project minimize the demands on the environment?

#### Site Context | Ecology

#### Performance Measure Description and Scoring

- EN3 Design of outdoor lighting minimizes the harmful effects of *light pollution* with technology that ensures lighting is:

- Only on when needed
- Only lights the area that needs it
- No brighter than necessary
- Minimizes blue light emissions
- Fully shielded (pointing downward)

See [International Dark Sky Association](#) for Dark Sky Friendly Lighting.

#### Applicant Explanation and Reference to Plans, Drawings, and Reports

Describe the lighting plan for the site and its dark sky friendly features:  
Outdoor lighting design will include criterias below:

1. Lights up only when it's dark
2. Lights are provided only where it's necessary (walkways and amenity)
3. Lights are downward direction with fully shielded from sides to avoid light pollution.
4. All lights will be LED for energy rating and minimize blue light emissions.

#### Staff Comments

Score  /3

## Considered at the Regular Council Meeting of May 10, 2022

### ENVIRONMENTAL SUSTAINABILITY SECTION *How well does the project minimize the demands on the environment?*

#### Site | Air Quality – Alternative Transportation

##### Performance Measure Description and Scoring

- EN4 Project provides alternative transportation facilities for user groups of each land use type, which contributes to reducing Greenhouse Gas Emissions from this development.

##### Applicant Explanation and Reference to Plans, Drawings, and Reports

Check all that apply: <input checked="" type="checkbox"/> Short-Term Bicycle parking <input checked="" type="checkbox"/> Long-Term Bicycle parking <input type="checkbox"/> End-of-Trip Bicycle Facilities: <input type="checkbox"/> Bike share and assigned parking <input type="checkbox"/> Co-op vehicle and assigned parking space provision <input checked="" type="checkbox"/> <i>Electric Vehicle</i> plug-ins and designated spaces <sup>1</sup> Plan references: <b>A117</b>	<b>Staff Comments</b>
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Score 2 /3

### ENVIRONMENTAL SUSTAINABILITY SECTION *How well does the project minimize the demands on the environment?*

#### Site | Air Quality – Alternative Transportation

##### Performance Measure Description and Scoring

- EN5 Project incorporates measures to support pedestrians and cyclists.

##### Applicant Explanation and Reference to Plans, Drawings, and Reports

Check all that apply: <input checked="" type="checkbox"/> Connects to existing pedestrian/cycling routes and priority destinations <input checked="" type="checkbox"/> Improves local pedestrian routes, local bike networks/trails <input checked="" type="checkbox"/> Safe, secure, accessible, and sustainable footpaths <input checked="" type="checkbox"/> Pedestrian clearway sufficient to accommodate pedestrian flow <input checked="" type="checkbox"/> Covered outdoor waiting areas, overhangs, or awnings <input checked="" type="checkbox"/> Pedestrian scale lighting <input checked="" type="checkbox"/> Pedestrian/bike-only zones <input checked="" type="checkbox"/> Other: Site circulation plan: <b>A112</b> Other plan references: <b>Landscape L1-L4</b>	<b>Staff Comments</b>
---	-----------------------

Developer will be paying to city for 3m wide bike lane construction, 1.5 m wide sodded front boulevard with street trees. Developer is required to replace the existing driveway letdown with sidewalk and curb & gutter.

Score 3 /3

<sup>1</sup> See BC Hydro's *Electric Vehicle Charging Infrastructure Deployment Guidelines*.

## Considered at the Regular Council Meeting of May 10, 2022

### ENVIRONMENTAL SUSTAINABILITY SECTION <sup>544</sup>How well does the project minimize the demands on the environment?

#### Building | Waste Storage Space

##### Performance Measure Description and Scoring

EN6 Project allocates sufficient and accessible recycling and garbage storage space in multi-family and commercial buildings and complexes compatible with City of Port Moody recycling, green waste, and garbage services.

**Target 1:** Metro Vancouver's Technical Specifications for Recycling and Garbage Amenities in Multi-family and Commercial Developments.

**Target 2:** Design provides safe and universally accessible access in a secure common area.

##### Applicant Explanation and Reference to Plans, Drawings, and Reports

<b>Total residential recycling, garbage, and green waste space proposed:</b> Recycling: <input type="text" value="5.05"/> m <sup>2</sup> Garbage: <input type="text" value="5.05"/> m <sup>2</sup> Green Waste: <input type="text" value="5.04"/> m <sup>2</sup>	<b>Staff Comments</b>
<b>Total commercial recycling, garbage, and green waste space proposed:</b> Recycling: <input type="text"/> m <sup>2</sup> Garbage: <input type="text"/> m <sup>2</sup> Green Waste: <input type="text"/> m <sup>2</sup>	
Details regarding design for safety, security, and accessibility: Garbage enclosure is fully within the secured underground parking lot. Enclosure will have all the bins for recycling, green waste and garbage.	

Score  /2

### ENVIRONMENTAL SUSTAINABILITY SECTION <sup>544</sup>How well does the project minimize the demands on the environment?

#### Site | Sustainable Landscaping – Urban Forestry

##### Performance Measure Description and Scoring

EN7 Project protects and enhances the *urban forest*, prioritizing native tree species.

See [City of Port Moody Tree Protection Bylaw](#)

##### Applicant Explanation and Reference to Plans, Drawings, and Reports

<b>Check all that apply:</b> <input checked="" type="checkbox"/> Existing mature trees protected (# <input type="text" value="2"/> ) <input checked="" type="checkbox"/> Replacement tree ratio ( <input type="text" value="2"/> : 1) • Native tree species planted on site (# <input type="text" value="6"/> ) • Native tree species planted off site (# <input type="text" value="2"/> ) <input checked="" type="checkbox"/> Protected/natural park areas added on site (% of total site area: <input type="text" value="11"/> )	<b>Staff Comments</b> No on-site trees being protected. Existing trees that are to be protected are City trees.
Arborist report: Provided.	

Score  /3

## Considered at the Regular Council Meeting of May 10, 2022

### ENVIRONMENTAL SUSTAINABILITY SECTION <sup>545</sup>How well does the project minimize the demands on the environment?

#### Site | Sustainable Landscaping – Habitat

##### Performance Measure Description and Scoring

- EN8 Project preserves, enhances, and/or compensates for site ecology on site (4 points). Off-site compensation may be considered in some cases, in accordance with all other City regulations and supported by staff (3 points).  
Compensation in the form of a financial contribution to the City toward approved public restoration, rehabilitation, or enhancement projects may be considered (2 points).

See City of Port Moody Naturescape Policy 13-6410-03.

See also [Invasive Plant Council of BC](#)

##### Applicant Explanation and Reference to Plans, Drawings, and Reports

Check all that apply:	Staff Comments
<input type="checkbox"/> Salvage replanting <input type="checkbox"/> Reduction to existing impervious area <input type="text"/> m <sup>2</sup>	
<input type="checkbox"/> Removal of <i>invasive plant species</i> Names:	
<input checked="" type="checkbox"/> Native/"naturescape" landscaping <input checked="" type="checkbox"/> Watercourse daylighting <input checked="" type="checkbox"/> Riparian area restoration	
<input checked="" type="checkbox"/> Other measures taken to enhance habitat or to compensate for habitat loss: REFER TO NEXT PAGE FOR COMMENT.	

Score  /4

BASELINE

Considered at the Regular Council Meeting of May 10, 2022

546

**EN8 Site | Sustainable Landscaping – Habitat**  
**Performance Measure Description and Scoring**

Barsanti Environmental Services, QP, were retained to design the Riparian planting for SPEA enhancement. Their claim in their report which was given to the city is that, “Riparian planting at ditch and bank will help to enhance water quality through shading and insect and litter drop”. and “” As these plants mature, they will provide water quality enhancement through temperature modulation by shading in summer as well as nutrients through litter and insect drop. A secondary benefit of the plants in this list is the development of food and nesting opportunities for song birds” . Proposed landscape will add 8 trees and 500 shrubs.

Water course will be day-lit by replacing existing steel pipe culvert with an open bottom concrete culvert for enhanced in-stream nutrients

Added Storm Detention Tank will also enhance ecology.

## Considered at the Regular Council Meeting of May 10, 2022

### ENVIRONMENTAL SUSTAINABILITY SECTION <sup>547</sup>How well does the project minimize the demands on the environment?

#### Site | Sustainable Landscaping – Stormwater

##### Performance Measure Description and Scoring

EN9 Project provides for stormwater retention and evaporation, and groundwater protection in the site stormwater management plan.

Targets:

1. Stormwater retained on-site to the same level of annual volume allowable under pre-development conditions.
2. Maximum allowable annual run-off volume is no more than 50% of the total average annual rainfall depth.
3. Remove 80% of total suspended solids based on the post-development imperviousness.

(3 points if all three targets are achieved)

See link in References to Metro Vancouver's Stormwater Source Control Guidelines

##### Applicant Explanation and Reference to Plans, Drawings, and Reports

Target(s) reached:	1	2	3	Staff Comments
<b>Means of achieving (check all that apply):</b>				
<input checked="" type="checkbox"/> Absorbent landscape <input type="checkbox"/> Roof downspout disconnection <input checked="" type="checkbox"/> Infiltration swales and/or trenches <input checked="" type="checkbox"/> Sub-surface chambers/detention tanks <input checked="" type="checkbox"/> Rain gardens with native plantings <input type="checkbox"/> Rainwater harvesting <input type="checkbox"/> Tree well structures <input type="checkbox"/> Green roof/wall <input type="checkbox"/> Water quality structures <input checked="" type="checkbox"/> Pervious paving <input checked="" type="checkbox"/> Daylighted streams <input type="checkbox"/> Constructed wetlands				
<input checked="" type="checkbox"/> Other: Max.Allowable runoff is no more than 50%. Storm discharge point is secured within the culvert to ensure ground water protection				
References to plans and documents: L1/ Target reached 3 Suspended solids will be removed as water travels to or through ditch, and through Riparian Planting				

Score 2 /3

BASELINE

## Considered at the Regular Council Meeting of May 10, 2022

### ENVIRONMENTAL SUSTAINABILITY SECTION <sup>548</sup>How well does the project minimize the demands on the environment?

#### Site | Sustainable Landscaping – Water Conservation

##### Performance Measure Description and Scoring

EN10 Project reduces potable water use for irrigation.

2 points = 5 actions (from “check all that apply” list)

1 point = 3 actions (from “check all that apply” list)

##### Applicant Explanation and Reference to Plans, Drawings, and Reports

<b>Check all that apply:</b> <input checked="" type="checkbox"/> Drought-tolerant landscaping ( <i>xeriscaping</i> ) with native species <input checked="" type="checkbox"/> Low-maintenance lawn alternatives <input type="checkbox"/> Non-water dependent materials/features for ground cover treatment <input checked="" type="checkbox"/> Irrigation system with central control and rain sensors <input type="checkbox"/> Captured rainwater irrigation system, e.g. using cisterns/rain barrels <input type="checkbox"/> Other:  Plan reference:	<b>Staff Comments</b>
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Score 1 /2

### ENVIRONMENTAL SUSTAINABILITY SECTION <sup>548</sup>How well does the project minimize the demands on the environment?

#### Site Context | Ecology

##### Performance Measure Description and Scoring

EN11 Project is sited and designed in order to facilitate and improve wildlife movement and access, particularly within known and suspected *habitat corridors*.

Ex. Deer, bears, frogs, salmon, etc. (depending on site location).

##### Applicant Explanation and Reference to Plans, Drawings, and Reports

Species supported: Birds, Fish	<b>Staff Comments</b>
Means of supporting: Native plants and shrubs, suggested by the QP, in Ditch and RPEA will help in the development of food and nesting opportunities for song birds” These plants will also help to enhance water quality through shading (temperature modulation) and insect and litter drop, as instream nutrients.	
Environmental assessment or site plan reference:	

Score 2 /2

Considered at the Regular Council Meeting of May 10, 2022

**ENVIRONMENTAL SUSTAINABILITY SECTION** *How well does the project minimize the demands on the environment?*

## Building | Green Building Rating

### Performance Measure Description and Scoring

EN12 Project will achieve a recognized industry standard for sustainable design.

### Applicant Explanation and Reference to Plans, Drawings, and Reports

Green Building Certification		Staff Comments
<input type="checkbox"/> <b>Built Green Level:</b> <input type="text"/> <ul style="list-style-type: none"> <li>• Bronze (2 points)</li> <li>• Silver (5 points)</li> <li>• Gold (8 points)</li> <li>• Platinum (10 points)</li> </ul>		
<input type="checkbox"/> <b>LEED Level:</b> <input type="text"/> <ul style="list-style-type: none"> <li>• Certified (2 points)</li> <li>• Silver (5 points)</li> <li>• Gold (8 points)</li> <li>• Platinum (10 points)</li> </ul>		
<input type="checkbox"/> <b>Canadian Passive House Institute</b> (10 points)		
<input type="checkbox"/> <b>Living Future Institute</b> <ul style="list-style-type: none"> <li>• Living Building Certification (10 points)</li> <li>• Petal Certification (10 points)</li> <li>• Net Zero Energy Certification (10 points)</li> </ul>		
<input type="checkbox"/> Other:		

Score 0 /10

## ENVIRONMENTAL SUSTAINABILITY SECTION *How well does the project minimize the demands on the environment?*

## Building | Alternative/Renewable Energy

### Performance Measure Description and Scoring

EN13 Project provides local, low-carbon energy systems, such as geo-exchange, heat recovery ventilation, solar or district energy.

### Applicant Explanation and Reference to Plans, Drawings, and Reports

<p>Details:</p> <p>Heat Recover Ventilation will be provided.</p> <p>Windows on south and west sides will be low E and Tinted for lesser heat gain in summer and lesser heat loss in winter. There is no natural gas used in the project for a better carbon print.</p>	<p><b>Staff Comments</b></p>
<p>Specify % of energy generated:</p>	

Score 

3
---

 /4

## Considered at the Regular Council Meeting of May 10, 2022

### ENVIRONMENTAL SUSTAINABILITY SECTION <sup>550</sup> How well does the project minimize the demands on the environment?

#### Building | Energy Reduction and Indoor Climate

##### Performance Measure Description and Scoring

EN14 Building architecture employs *passive design* strategies appropriate to the local climate to reduce energy use and enhance occupant comfort.

Examples:

- Site design and building massing minimizes east and west exposures to avoid unwanted solar gains.
- Limit windows to 50% of any façade, taking into account other livability and aesthetic criteria.
- Use heat-recovery ventilation during heating season only, and design for natural ventilation and cooling by natural ventilation throughout the rest of the year.
- See [City of Vancouver Passive Design Toolkit](#) for Large Buildings for other examples.

##### Applicant Explanation and Reference to Plans, Drawings, and Reports

<input checked="" type="radio"/> Yes <input type="radio"/> No	<b>Staff Comments</b>
<p>Key <i>passive design</i> building elements:</p> <p>Windows on East and West facade are less than 50% of facade to minimis heat gain or loss. HRV system in place to natural, heat efficient, ventilation. Windows on south and West face will be Low E and tinted for comfort and heat gain/loss. All heat will be Electrical. All appliances high Energy. Patio deck doors have roof overhang for sun shade. Windows will be provided with interior shades. Owners will have option to get 2 air-conditions ( in wall ) installed in their choice rooms. Programmable thermostats to reduce heat waste.</p>	

Score 2 /3

### ENVIRONMENTAL SUSTAINABILITY SECTION How well does the project minimize the demands on the environment?

#### Smart Technology

##### Performance Measure Description and Scoring

EN15 Project uses *smart technology* to optimize sustainable use of resources.

Ex. Automated lighting, shading, HVAC, energy/water consumption, security, etc.

##### Applicant Explanation and Reference to Plans, Drawings, and Reports

<p>Details:</p> <p>Automated lighting for walkways, unit entrances and outdoor amenity.</p> <p>Automated programmable thermostats will prevent unwanted usage.</p> <p>Motion sensor lights and video monitoring for security. FOB controlled entrances, and common area, elevator for security.</p>	<b>Staff Comments</b>

Score 2 /2

## Considered at the Regular Council Meeting of May 10, 2022

### ENVIRONMENTAL SUSTAINABILITY SECTION <sup>551</sup>How well does the project minimize the demands on the environment?

#### Site | Sustainable Landscaping

##### Performance Measure Description and Scoring

- EN16 Project provides or designates space for growing food in private or common areas including on-site composting to support the gardening activities.

##### Applicant Explanation and Reference to Plans, Drawings, and Reports

<p>Details:</p> <p>There is a community vegetable and herb garden provided in the court yard. Attention was given to its location for maximum sun exposure. Roof Top patios and large decks will also allow private areas for food growing</p>	<p><b>Staff Comments</b></p>
<p>Landscape Plan Reference: L1</p>	

Score 2 /2

### ENVIRONMENTAL SUSTAINABILITY SECTION <sup>551</sup>How well does the project minimize the demands on the environment?

#### Building Energy Performance

##### Performance Measure Description and Scoring

- EN17 Building design incorporates Port Moody Building Energy Performance Design Guidelines.

##### Applicant Explanation and Reference to Plans, Drawings, and Reports

<p><b>BC Energy Step Code:</b></p> <p><input type="radio"/> Tier 1 (1 point)</p> <p><input type="radio"/> Tier 2 (2 points)</p> <p><input checked="" type="radio"/> Tier 3 (3 points)</p> <p><input type="radio"/> Tier 4 (4 points)</p> <p>Attach a copy of Port Moody Building Energy Performance Design Guidelines Checklist.</p>	<p><b>Staff Comments</b></p>

Score 3 /4

## Considered at the Regular Council Meeting of May 10, 2022

### ENVIRONMENTAL SUSTAINABILITY SECTION <sup>552</sup> How well does the project minimize the demands on the environment?

#### Stormwater and Ecology/Water Conservation

##### Performance Measure Description and Scoring

EN18 Project incorporates landscaped roofs or living walls that also provide food/habitat for native species.

OR

Project includes on-site grey water reuse.

**2 BONUS POINTS EACH**

##### Applicant Explanation and Reference to Plans, Drawings, and Reports

<p>Details:</p> <p>Landscape includes shrubs that support bird life with persistent fruits such as Oregon grape, currant, rose hips, salad, and huckleberry</p> <p>Barsanti Environmental Services, QP, designed the Riparian planting. They selected all native plants that help development of food and nesting opportunities for song birds". Our proposed landscape will add 8 trees and 500 shrubs.</p>	<p><b>Staff Comments</b></p> <p>Question focuses on landscaped roofs and living walls.</p>
--	--

Bonus Score  /2

### ENVIRONMENTAL SUSTAINABILITY SECTION How well does the project minimize the demands on the environment?

#### Environmental Monitoring

##### Performance Measure Description and Scoring

EN19 Project contracts with an Environmental Monitor(s) to oversee implementation of environmental sustainability measures, i.e. sustainable landscaping measures.

OR

Project employs an energy efficiency consultant.

**2 BONUS POINTS EACH**

##### Applicant Explanation and Reference to Plans, Drawings, and Reports

<p>Details of Work Overseen/Contribution:</p> <p>Project contracts with landscape architect for sustainable landscaping measures.</p> <p>Project also contracts with e QEP Specialist to oversee environmental measures.</p>	<p><b>Staff Comments</b></p>
--	------------------------------

Bonus Score  /2

## Considered at the Regular Council Meeting of May 10, 2022

### ENVIRONMENTAL SUSTAINABILITY SECTION *How well does the project minimize the demands on the environment?*

#### Innovation

#### Performance Measure Description and Scoring

EN20 Environmental sustainability aspects not captured above.

#### Applicant Explanation and Reference to Plans, Drawings, and Reports

Restoration of Ditch and RPEA area will provide community and environmental benefit.

#### Staff Comments

### ENVIRONMENTAL SUSTAINABILITY SECTION *How well does the project minimize the demands on the environment?*

#### Constraints

#### Performance Measure Description and Scoring

EN21 Unique site aspects that limit environmental sustainability achievement.

#### Applicant Explanation and Reference to Plans, Drawings, and Reports

N/A

#### Staff Comments

### Environmental Sustainability Score Summary

#### Score

Total Environmental Pillar Points (Total Points Available – Not Including Bonus Points)

57

Total

Total Environmental Points Not Applicable  
(Total Points for Items Not Relevant to this Application)

4

n/a

Maximum Achievable Score  
(Total Environmental Pillar Points Minus Total Environmental Points Not Applicable)

53

Maximum

Environmental Pillar Minimum Score  
(Sum of Applicable Baseline Items)

26

Enviro Baseline

Total Points Achieved  
(Total Points Achieved for Applicable Items for this Application)

36

Total Environmental Points

Environmental Pillar Score  
(Total Points Achieved/Maximum Achievable Score)

36

Total Environmental Points

57

Max

63

Percent

## Considered at the Regular Council Meeting of May 10, 2022

### SOCIAL SUSTAINABILITY SECTION

How well does the project address community health and wellness?

#### Accessibility

##### Performance Measure Description and Scoring

- S1 For single-storey units in multi-family residential development:  
 (a) a minimum of 40% are adaptable units (2 points) and, of those units,  
 (b) accessible unit(s) providing full wheelchair accessibility are provided (2 points).  
 Project incorporates adaptable and accessible design features in the site/building circulation and bathrooms in all other uses (2 points).

##### Applicant Explanation and Reference to Plans, Drawings, and Reports

<b>Residential</b> % of Adaptable Units: <input type="text" value="100"/>	<b>Staff Comments</b>
Details: 2 of the 2 single storey units have accessible bathroom/circulation design.	
Number of Accessible Units: <input type="text" value="2"/>	
Details:	
Residential Site/Common Areas and Commercial/Industrial/ Institutional Uses: <b>Residential</b>	
Details: Project incorporates accessible design features the site/building circulation. Elevator access to parkade and both levels of court yard allows full site circulation for occupants of adaptable units.	

Score  /6

BASELINE + EARLY STAGE

## Considered at the Regular Council Meeting of May 10, 2022

### SOCIAL SUSTAINABILITY SECTION

How well does the project address community health and wellness?

#### Complete Community Design

##### Performance Measure Description and Scoring

- S2 Project design is adapted to minimize shadow or privacy impacts to adjacent buildings.

##### AND/OR

Project design integrates the results of a *viewscape* study with respect to water and mountain views.

##### Applicant Explanation and Reference to Plans, Drawings, and Reports

<p>Details:</p> <p>Project minimizes privacy impacts with minimal use of windows on West &amp; East facade of the building that faces the interior lot line of the property.</p> <p>Proposed roof deck has lower roofline that allows for better views towards the inlet and mountains.</p> <p>Windows for living space on north units are oriented for best view to water, while those on south side are best oriented for mountain view.</p>	<p><b>Staff Comments</b></p>
<p>Plan/document references:</p> <p>A118-121</p>	

Score 1 /1

### SOCIAL SUSTAINABILITY SECTION

How well does the project address community health and wellness?

#### Housing Diversity

##### Performance Measure Description and Scoring

- S3 Development includes a mix of housing types.

##### Applicant Explanation and Reference to Plans, Drawings, and Reports

	<b>Number of Units</b>	<p><b>Staff Comments</b></p> <p>Does not propose true live-work units or apartment units.</p>
Live-work units	8	
Ground-oriented units	3	
Apartment units	5	

Score 1 /3

## Considered at the Regular Council Meeting of May 10, 2022

### SOCIAL SUSTAINABILITY SECTION

How well does the project address community health and wellness?

#### Housing Diversity

##### Performance Measure Description and Scoring

- S4 Project includes a range of unit sizes for a variety of household types, and the design is flexible to allow for changes, i.e. den can easily become another bedroom.

##### Targets:

2-bedroom minimum 25% of units

3-bedroom minimum 10% of units

##### Applicant Explanation and Reference to Plans, Drawings, and Reports

	Number of Units	% of Units	Staff Comments
Bachelor/1-bedroom	<input type="text"/>	<input type="text"/>	
2-bedroom	7	88 (1 pt)	
3+ -bedroom	1	12 (2 pts)	
Flexible design features: 3 units have extra den which allows for flexible uses such as home office, media space, extra bedroom.  Units are designed with large dens or open space to allow 'Work from home' and city's newly proposed zoning (in progress) for multi family units called 'Home based business with low impact' similar to 'Live-Work' concept.			

Score  /3

### SOCIAL SUSTAINABILITY SECTION

How well does the project address community health and wellness?

#### Housing Affordability

##### Performance Measure Description and Scoring

- S5 Project provides new purpose-built *market rental housing* (2 points) or affordable *market rental housing* (3 points) or *non-market rental housing* (4 points).

##### OR

Development contributes to the City's Affordable Housing Reserve Fund in lieu of provision of affordable housing (2 points).

##### Applicant Explanation and Reference to Plans, Drawings, and Reports

Types: Rental	Staff Comments
Description: REFER TO NEXT PAGE FOR COMMENT.	
% of total housing units: <div>25</div> %	
Plan reference:	
No Housing Agreement for "market rental" units	

Score  /4

Considered at the Regular Council Meeting of May 10, 2022

557

**S5 Housing Affordability**

Developer will keep minimum 2 units for rental purpose.

Project provides opportunity to those who need a town house with direct access to outdoors, but can not afford a regular town house due to cost.

A part of the general amenity fees that the developer pays will be going towards the affordable housing.

## Considered at the Regular Council Meeting of May 10, 2022

### SOCIAL SUSTAINABILITY SECTION

How well does the project address community health and wellness?

#### Amenities

#### Performance Measure Description and Scoring

S6 Project provides voluntary public amenities.

Examples:

- Child care facility
- Space for growing food
- Child play areas
- Gathering place/space
- Park/greenspace
- Public contribution in lieu (CACs), i.e., school, library, arts, etc.

(5 Points = any approved option)

#### Applicant Explanation and Reference to Plans, Drawings, and Reports

Details:

1. Common amenity at ground level
2. Private decks and roof decks
3. Park / Greenscape
4. Public contribution in lieu (CACs) ie. school, library, arts, etc.
5. Community veg and herb garden for growing food.
6. Street Appeal of Riparian planting on Vintner Street and Restoration of the offsite Ditch on North will provide community and Environment Benefit.

Plan reference:

A112, Landscape set.

#### Staff Comments

Project committed to providing CACs

Score 5 /5

EARLY STAGE

## Considered at the Regular Council Meeting of May 10, 2022

### SOCIAL SUSTAINABILITY SECTION

How well does the project address community health and wellness?

#### Amenities

#### Performance Measure Description and Scoring

S7 Project provides voluntary private amenities.

Examples:

- Accessible green roof
- Communal garden
- Dog runs
- Play areas
- Social gathering place

(1 point per approved amenity item – maximum of 3 points)

#### Applicant Explanation and Reference to Plans, Drawings, and Reports

Details:

Common amenity space with seating equipment at ground level. Roof top patios and top floor decks provide green space planting Communal garden, Riparian planting, trees, and Vegetable Garden. Communal covered amenity space for inside/outside use in all seasons for kids play or social gathering. Play area for kids, and social gathering, in court yard is large and much more than that required by code. Affordable home with direct access to outdoors is pet owners dream.

Plan reference:

A112, Landscape set

#### Staff Comments

Score  /3

### SOCIAL SUSTAINABILITY SECTION

How well does the project address community health and wellness?

#### Inclusive Community

#### Performance Measure Description and Scoring

S8 The proposal supports aging-in-place with adult care, assisted living space, and/or independent senior living space.

#### Applicant Explanation and Reference to Plans, Drawings, and Reports

Details:

2 Accessible units are proposed at ground level.

Elevator provided for older occupants ease.

All units have a 2nd bedroom and bathroom for live-in help

Project is ideal for seniors, downsizes, people with pets, young couples and families, as well as "Home based business with low impact".

#### Staff Comments

Score  /4

## Considered at the Regular Council Meeting of May 10, 2022

### SOCIAL SUSTAINABILITY SECTION

How well does the project address community health and wellness?

#### Community Building

##### Performance Measure Description and Scoring

- S9 Project provides *urban vitalization* by involving land owners and occupants, community groups, and end user groups who may be affected by the proposal in the planning process to identify and showcase Port Moody's unique assets, i.e. goes above and beyond standard notification and consultation.

Examples:

- Host a community-building workshop with the neighbourhood at the time of a project's inception to determine values and identify unique assets to leverage through design.

Staff will advise on notification requirements and appropriate stakeholder consultation

##### Applicant Explanation and Reference to Plans, Drawings, and Reports

Please identify stakeholders and explain their involvement:

A neighbour consultation meeting was held during previous application with almost identical massing and design and full public support was evident for the project.

##### Staff Comments

Identify actions taken in response to stakeholder input:

A website was set up for public input prior to 3rd reading. Comments from neighbourhood were all positive. This can be redone at the advice of city .

Plan references:

Score 3 /4

## Considered at the Regular Council Meeting of May 10, 2022

### SOCIAL SUSTAINABILITY SECTION

How well does the <sup>561</sup>project address community health and wellness?

#### Safety

##### Performance Measure Description and Scoring

S10 The design of the site incorporates *Crime Prevention Through Environmental Design* principles (CPTED).

##### Applicant Explanation and Reference to Plans, Drawings, and Reports

Please explain:  
CPTED principles are incorporated into landscape design.  
-Shrubs and plants are kept below eye level  
-Lower branches of trees kept up above the eye level  
-Site lighting and open sight-lines for pedestrian pathways  
-Parking is secured with gates at all times  
-Common amenity is visible from all units and will be well-lit

Plan references:  
A-112, Landscape set.

##### Staff Comments

Score  /1

### SOCIAL SUSTAINABILITY SECTION

How well does the project address community health and wellness?

#### Education and Awareness

##### Performance Measure Description and Scoring

S11 Project provides education and awareness of the sustainable features of the project for owners/occupants.

Examples:

- Document is given to new owners at time of sale, covenant on title, inclusion/protection of features in strata bylaws
- Signage/display/art recognizing design, etc.

##### Applicant Explanation and Reference to Plans, Drawings, and Reports

Describe:  
Purchases will get a write up on project explaining benefit of building design with sustainability

##### Staff Comments

Score  /1

## Considered at the Regular Council Meeting of May 10, 2022

### SOCIAL SUSTAINABILITY SECTION

*How well does the project address community health and wellness?*

#### Innovation

#### Performance Measure Description and Scoring

S12 Social sustainability aspects not captured above.

#### Applicant Explanation and Reference to Plans, Drawings, and Reports

Street facing units will be ideal for 'Home Base Business with low Impact' eg Massage Therapist, Aqua Puncture, Psychologist, Physio therapist, Hair Stylist, Therapists, Fortune tellers. Project provides more than 2 Bike Storage per unit for health conscious owners.

#### Staff Comments

### SOCIAL SUSTAINABILITY SECTION

*How well does the project address community health and wellness?*

#### Constraints

#### Performance Measure Description and Scoring

S13 Unique site aspects that limit social sustainability achievement.

#### Applicant Explanation and Reference to Plans, Drawings, and Reports

It is a small site. Site could not be combined with either neighbour as one neighbour has heritage property and other has a creek. Inspire of this limitation, we believe the end product and its design is perfect for the target owner who could a senior, downsizer, a pet lover, young couple, a family, or a person working from home or an owner of 'home based business with low impact'.

#### Staff Comments

## Social Sustainability Score Summary

### Score

Total Social Pillar Points (Total Points Available – Not Including Bonus Points)

35

Total

Total Social Points Not Applicable  
(Total Points for Items Not Relevant to this Application)

0

n/a

Maximum Achievable Score  
(Total Social Pillar Points Minus Total Social Points Not Applicable)

35

Maximum

Social Pillar Minimum Score  
(Sum of Applicable Baseline Items)

7

Social Baseline

Total Points Achieved  
(Total Points Achieved for Applicable Items for this Application)

27

Total Social Points

Social Pillar Score  
(Total Points Achieved/Maximum Achievable Score)

27

Total Social Points

35

Max

77

Percent

# Considered at the Regular Council Meeting of May 10, 2022

563

## Project Report Card Summary FOR CITY USE ONLY – TO BE FILLED OUT BY THE PLANNER

Project Address/Name:	File No:
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PROJECT SCORE SUMMARY	Cultural	Economic	Environmental	Social
<b>Total Pillar Points Available</b>	<b>23</b>	<b>10</b>	<b>57</b>	<b>35</b>
<b>Sum Of Items Not Applicable</b>	Cultural na 12	Economic na 3	Enviro na 4	Social na 0
<b>Maximum Achievable Score</b> (Total Pillar Points – Sum of Items N/A)	Maximum Cultural Achievable 11	Maximum Economic Achievable 7	Maximum Enviro Achievable 53	Maximum Social Achievable 35
<b>Minimum Score</b> (Sum of Applicable Baseline Items)	Minimum Cultural Score 5	Minimum Economic Score 7	Minimum Enviro Score 26	Minimum Social Score 7
<b>Missed Points</b> (Sum of Applicable Items Not Achieved)	Missed Cultural Points 3	Missed Economic Points 1	Missed Enviro Points 21	Missed Social Points 8
<b>TOTAL PILLAR SCORE ACHIEVED</b> (Total Points Achieved out of Applicable Items)	<div>8 / 11</div> <div>Total Cultural # Possible Cultural #</div> <div>73 %</div> <div>Total Cultural Percent</div>	<div>6 / 7</div> <div>Total Economic # Possible Economic #</div> <div>86 %</div> <div>Total Economic Percent</div>	<div>36 / 57</div> <div>Total Enviro # Possible Enviro #</div> <div>63 %</div> <div>Total Enviro Percent</div>	<div>27 / 35</div> <div>Total Social # Possible Social #</div> <div>77 %</div> <div>Total Social Percent</div>
<b>OVERALL SUSTAINABILITY SCORE</b> (Sum of Four Pillars)	<div>77 / 106</div> <div>Overall # Overall Possible #</div>		<div>73 %</div> <div>Overall Percent</div>	
SUSTAINABILITY HIGHLIGHTS	Cultural	Economic	Environmental	Social
<b>+</b> Priority Items (Score ≥3) Achieved and Confirmed Innovations	+ Cultural Cash-in-lieu to Art Reserve	+ Economic Increases Tax Base	+ Environmental Step 3 of BCESC, meets Metro Vancouver Garbage and Recycle Room guidelines for size	+ Social Adaptable units, Common amenity space, private amenity space
<b>-</b> Priority Items (Score ≥3) Missed and Confirmed Constraints	- Cultural	- Economic	- Environmental Green Building Rating	- Social

## Report Card Glossary

**Accessible housing** – Housing designed and constructed to be universally accessible to people of diverse ages and abilities.

**Adaptable unit** – A dwelling unit that provides flexible design features that meet BC Building Code minimum requirements; it can be adapted to meet the changing needs of any occupant for reasons of disability, lack of stamina, and progressing through different life stages to support independent living.

**Accessible housing/unit** – Housing with fixed design features to enable independent living for persons with disabilities, such as those in wheelchairs.

**Affordable market housing** – Housing that is affordable to moderate income households achieved through tenure, location, reduced parking, modesty in unit size, level of finishing, and design and durability over time as the buildings age.

**BC Energy Step Code** – BC Energy Step Code is a voluntary roadmap that establishes progressive performance targets (i.e., steps) that support market transformation from the current energy-efficiency requirements in the BC Building Code to net zero energy ready buildings.

**Beautification** – The process of making visual improvements appropriate to a specific place, including but not limited to building facades, landscaping, decorative or historic-style street elements, selection of paving/fencing materials and their treatment, etc. Improvements contribute to Port Moody's reputation as City of the Arts in a sustainable manner.

**Brownfield** – A term used in urban planning to describe land previously used for industrial purposes or some commercial uses where the expansion, redevelopment, or reuse of the property may be complicated by the potential presence of a hazardous substance, pollutant, or contaminant.

**Car/Bike share network** – Arrangements between two or more persons to share the use of a vehicle or bicycle for a specified cost and period of time.

**Character-defining elements** – The materials, forms, location, spatial configurations, uses, and cultural associations or meanings that contribute to the heritage value of a historic place, which must be retained to preserve its heritage value.

**Crime Prevention Through Environmental Design (CPTED)** – The design and effective use of the built environment to reduce the incidence of crime and improve the quality of life.

**District energy systems** – A system that uses renewable energy to pipe energy to buildings within a specified area for space heating, hot water, and air conditioning.

**Ecological inventory** – An inventory that identifies the ecological values in a natural habitat, and is usually the first step in an environmental impact assessment.

**Electric vehicle (EV)** – An automobile that uses one or more electric motors or traction motors for propulsion. An electric vehicle may be powered through a collector system by electricity from off-vehicle sources, or may be self-contained with a battery or generator to convert fuel to electricity.

**Environmentally Sensitive Areas** – Land designated as areas that need special protection because of its environmental attributes, such as rare ecosystems, habitats for species at risk and areas that are easily disturbed by human activities. Refer to [Map 13 of OCP](#).

## Report Card Glossary – continued

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**Greenfield** – Undeveloped land in a city or rural area either used for agriculture or landscape design, or left to evolve naturally. These areas of land are usually agricultural or amenity properties being considered for urban development.

**Greyfield** – Economically obsolescent, out-dated, declining, and/or underutilized land, often with the presence of abundant surface parking.

**Greywater** – Wastewater from lavatories, showers, sinks, and washing machines that do not contain food wastes and that can be reused for purposes such as irrigation or flushing toilets.

**Habitat corridor** – Habitat areas, generally consisting of native vegetation, linking with larger areas of similar wildlife habitat. Corridors are critical for the maintenance of ecological processes, providing food, and allowing for the movement of animals and the continuation of viable populations.

**Heat island effect** – Heat islands form as vegetation is replaced by hard surfaces to accommodate growing populations. These surfaces absorb, rather than reflect, the sun's heat, causing surface temperatures and overall ambient temperatures to rise.

**Heritage rehabilitation** – The action or process of making possible a continuing or compatible contemporary use of a historic place through repair, alterations, and/or additions while protecting its heritage value.

**Heritage restoration** – Returning a historic place back to how it looked at any time in its past.

**Invasive plant species** – An invasive plant is a non-native species whose interaction causes economic harm, harm to human health, and/or environmental harm.

**Light pollution** – Brightening of the night sky caused by street lights and other man-made sources, which has a disruptive effect on natural cycles and inhibits the observation of stars and planets.

**Market rental housing** – Private, market rental rate housing units.

**Naturescape planting** – Landscaping with species that are naturally adapted to local climate, soils, predators, pollinators, and disease and, once established, require minimal maintenance.

**Non-market rental housing** – Subsidized rental housing for those unable to pay market-level rents including, but not limited to, public housing owned and operated by government agencies, non-profit housing owned and operated by public and private non-profit groups, and co-operative housing owned and managed by co-operative associations of the residents.

**On-site power generation** – The ability to generate power without transporting it from its source to where it can be utilized.

**On-site renewable energy generation** – The generation of naturally replenished sources of energy, such as solar, wind power, falling water, and geothermal energy.

**Passive design** – An approach to building design that uses the building architecture to minimize energy consumption and improve thermal comfort.

**Public space** – A social space that is generally open and accessible to people.

## Report Card Glossary – continued

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**R-2000-Certified New Home** – Best-in-class, energy-efficient homes with even higher levels of energy efficiency than ENERGY STAR-qualified new homes, as well as clean air and environmental features.

**Smart technology** – Technologies that allow sensors, databases, and/or wireless access to collaboratively sense, adapt to, and provide for users within the environment.

**Statement of significance** – The first essential step in any conservation project, which involves identifying and describing the *character-defining elements*; it is important in defining the overall heritage value of the historic place. Refer to the Standards and Guidelines for the Conservation of Historic Places in Canada (see Resources glossary).

**Streetscape** – The visual elements of a street, including the road, adjoining buildings, sidewalks, street furniture, trees, and open spaces that combine to form the street’s character.

**Storm water management plan** – The management of water occurring as a result of development or precipitation that flows over the surface into a sewer system.

**Transit oriented development (TOD)** – A mixed-use residential and commercial area designed to maximize access to public transportation; it often incorporates features to encourage transit ridership. A TOD neighbourhood typically has a centre with a transit station or stop (train station, metro station, tram stop, or bus stop), surrounded by relatively high-density development with progressively lower-density development spreading outward from the centre. TODs generally are located within a radius of 400 to 800 metres from a transit stop, as this is considered to be an appropriate distance for *walkability*.

**Universal access** – This term refers to broad-spectrum ideas meant to produce buildings, products, and environments that are inherently accessible to both people without disabilities and people with disabilities.

**Urban infill** – An urban planning term that refers to new development that is sited on vacant or undeveloped land within an existing community, and that is enclosed by other types of development.

**Urban forest** – The total collection of trees and associated plants growing in a city or town. It includes trees in parks and yards, along roadways and paths, and in other areas, both on public and private lands.

**Urban vitalization** – The urban planning process of rehabilitating a place or “taking a place to a higher level” using a community-building process (early stage community involvement) to define the key characteristics that make a place unique or special; and applying the concepts of urban conservation to leverage a community’s assets, most often in accordance with approved City plans.

**Viewscape** – The natural and built environment that is visible from a viewing point.

**Walkability** – The extent to which the built environment is friendly to the presence of people living, shopping, visiting, enjoying, or spending time in an area; improvements in walkability lead to health, economic, and environmental benefits.

**Xeriscaping** – This term refers to landscaping and gardening in ways that reduce or eliminate the need for supplemental water from irrigation. Xeriscaping refers to a method of landscape design that minimizes water use.

## Resources

**Access Near Aquatic Areas: A Guide to Sensitive Planning, Design and Management**

[atfiles.org](http://atfiles.org)

**BC Climate Exchange**

[bcclimateexchange.ca](http://bcclimateexchange.ca)

**BC Energy Step Code Technical Requirements**

[bclaws.ca](http://bclaws.ca)

**Best Management Practices for Amphibians and Reptiles in Urban and Rural Environments in British Columbia**

[env.gov.bc.ca](http://env.gov.bc.ca)

**Bird-Friendly Development Guidelines – City of Toronto**

[toronto.ca/lightsout/guidelines](http://toronto.ca/lightsout/guidelines)

**Canada Green Building Council**

[cagbc.org](http://cagbc.org)

**City of Port Moody: Official Community Plan (2014)**

[portmoody.ca](http://portmoody.ca)

**Stream and Drainage System Protection Bylaw No. 2470**

[portmoody.ca](http://portmoody.ca)

**City of Port Moody Waste Management Bylaw No. 2822**

[portmoody.ca](http://portmoody.ca)

**City of Vancouver *Passive Design* Toolkit for Large Buildings**

[vancouver.ca](http://vancouver.ca)

**Community Green Ways Linking Communities to Country and People to Nature**

[evergreen.ca](http://evergreen.ca)

**Design Centre for CPTED (*Crime Prevention Through Environmental Design*)**

[designcentreforcpted.org](http://designcentreforcpted.org)

**Develop with Care: Environmental Guidelines for Urban and Rural Land Development in British Columbia**

[env.gov.bc.ca/wld/documents/bmp/devwithcare/](http://env.gov.bc.ca/wld/documents/bmp/devwithcare/)

**EnerGuide Rating System**

[nrcan.gc.ca/energy/efficiency/housing/new-homes/5035](http://nrcan.gc.ca/energy/efficiency/housing/new-homes/5035)

**Environmentally Sensitive Areas, Best Practices**

[env.gov.bc.ca](http://env.gov.bc.ca)

## Resources – continued

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### Examples of Good Public Art

[City of Port Moody Public Art](#)

### Fatal Light Awareness Program (FLAP)

[flap.org](#)

### Invasive Species Council of Metro Vancouver

[iscmv.ca](#)

### International Dark Sky Association

[darksky.org](#)

### Metro Vancouver's DLC Waste Management Toolkit

[metrovancouver.org](#)

### Metro Vancouver Technical Specifications for Recycling and Garbage Amenities in Multi-family and Commercial Developments

[metrovancouver.org/services](#)

### Metro Vancouver's Stormwater Source Control Guideline

[metrovancouver.org/services](#)

### Naturescape BC

[naturescapebc.ca](#)

### Project for Public Spaces

[pps.org](#)

### Riparian Areas Regulation Assessment Methods

[gov.bc.ca](#)

### Standards and Best Management Practices for Instream Works

[env.gov.bc.ca](#)

### Standards and Guidelines for the Conservation of Historic Places in Canada

[historicplaces.ca](#)

### Stream Stewardship: A Guide for Planners and Developers

[stewardshipcentrebc.ca](#)

### Translink: Transit Oriented Communities

[translink.ca/transit-oriented-communities](#)

### Vancouver Bird Strategy – City of Vancouver (2015)

[vancouver.ca](#)