

THE CORPORATION OF THE CITY OF VERNON REPORT TO COUNCIL

SUBMITTED BY:

Michelle Austin

Planner, Current Planning

COUNCIL MEETING: REG ☑ COW ☐ I/C ☐

COUNCIL MEETING DATE: November 14, 2022

REPORT DATE: November 2, 2022

FILE: 3360-20 (ZON00385) / 3090-20 (DVP00569)

SUBJECT:

ZONING AND DEVELOPMENT VARIANCE PERMIT APPLICATIONS FOR 1609 43RD

AVENUE

PURPOSE:

To present for Council's consideration zoning and development variance permit applications for the property located at 1609 43rd Avenue in preparation for a 16-unit townhouse development.

RECOMMENDATION:

THAT Council support Zoning Application 00385 (ZON00385) to rezone Lot 1, Sec 2, TP 8, ODYD, Plan KAP48497 (1609 43rd Avenue) from R5 – Four-plex Residential to RH2 – Stacked Row Housing Residential as outlined in the report titled "Zoning and Development Variance Permit Applications for 1609 43rd Avenue" dated November 2, 2022 and respectfully submitted by the Current Planner;

AND FURTHER, that Council's support of ZON00385 is subject to the following:

- a) that a combined Multiple Family and Environmental Development Permit is ready for issuance prior to final adoption of a bylaw to rezone the property; and
- b) that a covenant, in favour of the City of Vernon, be registered on title of the land:
 - i. prohibiting health services, personal services, and retail conveniences secondary uses;
 - ii. limiting the maximum number of dwelling units to 16;
 - iii. limiting the maximum height of buildings to the lesser of 10m or 3 storeys; and
 - iv. requiring common outdoor amenity space with a playground structure;

AND FURTHER, that Council hold a public hearing, pursuant to 464(1) of the *Local Government Act*, on a proposed bylaw to rezone Lot 1, Sec 2, TP 8, ODYD, Plan KAP48497 (1609 43rd Avenue) from R5 – Fourplex Residential to RH2 – Stacked Row Housing Residential;

AND FURTHER, that Council support Development Variance Permit Application 00569 (DVP00569) to vary Zoning Bylaw 5000 for Lot 1, Sec 2, TP 8, ODYD, Plan KAP48497 (1609 43rd Avenue) by:

- a) decreasing Section 9.13.6, minimum side yard (east), from 3m to 2m for Building 2;
- b) decreasing Section 9.13.6, minimum side yard (east), from 3m to 2.6m for the portion of Building 4 being ≤ 2.5 storeys;

- c) decreasing Section 9.13.6, minimum side yard (east), from 6m to 2.6m for the portion of Building 4 being > 2.5 storeys;
- d) decreasing Section 9.13.6, minimum rear yard, from 7.5m to 3.7m for the portion of Buildings 3 and $4 \le 2$ storeys; and
- e) decreasing Section 9.13.6, minimum rear yard, from 9m to 3.7m for the portion of the Buildings 3 and 4 > 2 storeys.

ALTERNATIVES & IMPLICATIONS:

1. THAT Council support Zoning Application 00385 (ZON00385) to rezone Lot 1, Sec 2, TP 8, ODYD, Plan KAP48497 (1609 43rd Avenue) from R5 – Four-plex Residential to RH2 – Stacked Row Housing Residential as outlined in the report titled "Zoning and Development Variance Permit Applications for 1609 43rd Avenue" dated November 2, 2022 and respectfully submitted by the Current Planner;

AND FURTHER, that Council's support of ZON00385 is subject to the following:

- a) that a combined Multiple Family and Environmental Development Permit is ready for issuance prior to final adoption of a bylaw to rezone the property; and
- b) that a covenant, in favour of the City of Vernon, be registered on title of the land:
 - i. prohibiting health services, personal services, and retail conveniences secondary uses;
 - ii. limiting the maximum number of dwelling units to 16;
 - iii. limiting the maximum height of buildings to the lesser of 10m or 3 storeys; and
 - iv. requiring common outdoor amenity space with a playground structure;

AND FURTHER, that Council not hold a public hearing, pursuant to 464(2) of *the Local Government Act*, on a proposed bylaw to rezone Lot 1, Sec 2, TP 8, ODYD, Plan KAP48497 (1609 43rd Avenue) from R5 – Four-plex Residential to RH2 – Stacked Row Housing Residential;

AND FURTHER, that Council direct Administration to issue a public notice of initial readings and prepare a proposed bylaw to be brought forward for Council's consideration at the Regular Meeting of December 12, 2022 to rezone Lot 1, Sec 2, TP 8, ODYD, Plan KAP48497 (1609 43rd Avenue) from R5 – Four-plex Residential to RH2 – Stacked Row Housing Residential;

AND FURTHER, that Council be advised that Development Variance Permit Application 00569 (DVP00569) will be brought forward for Council's consideration and public input at the Regular Meeting of December 12, 2022, to vary Zoning Bylaw 5000 for Lot 1, Sec 2, TP 8, ODYD, Plan KAP48497 (1609 43rd Avenue) by:

- a) decreasing Section 9.13.6, minimum side yard (east), from 3m to 2m for Building 2;
- b) decreasing Section 9.13.6, minimum side yard (east), from 3m to 2.6m for the portion of Building 4 being ≤ 2.5 storeys;
- c) decreasing Section 9.13.6, minimum side yard (east), from 6m to 2.6m for the portion of Building 4 being > 2.5 storeys;

- d) decreasing Section 9.13.6, minimum rear yard, from 7.5m to 3.7m for the portion of Buildings 3 and $4 \le 2$ storeys; and
- e) decreasing Section 9.13.6, minimum rear yard, from 9m to 3.7m for the portion of the Buildings 3 and 4 > 2 storeys.

Note: This alternative does not allow the public to make representations to Council on the proposed bylaw.

2. THAT Council not support Zoning Application 00385 (ZON00385) to rezone Lot 1, Sec 2, TP 8, ODYD, Plan KAP48497 (1609 43rd Avenue) from R5 – Four-plex Residential to RH2 – Stacked Row Housing Residential as outlined in the report titled "Zoning and Development Variance Permit Applications for 1609 43rd Avenue" dated November 2, 2022 and respectfully submitted by the Current Planner;

AND FURTHER, that Council not support Development Variance Permit Application 00569 (DVP00569) to vary Zoning Bylaw 5000 for Lot 1, Sec 2, TP 8, ODYD, Plan KAP48497 (1609 43rd Avenue) to:

- a) decrease Section 9.13.6, minimum side yard (east), from 3m to 2m for Building 2;
- b) decrease Section 9.13.6, minimum side yard (east), from 3m to 2.6m for the portion of Building 4 being ≤ 2.5 storeys;
- c) decrease Section 9.13.6, minimum side yard (east), from 6m to 2.6m for the portion of Building 4 being > 2.5 storeys;
- d) decrease Section 9.13.6, minimum rear yard, from 7.5m to 3.7m for the portion of Buildings 3 and $4 \le 2$ storeys; and
- e) decrease Section 9.13.6, minimum rear yard, from 9m to 3.7m for the portion of the Buildings 3 and 4 > 2 storeys.

Note: This alternative does not support the rezoning and variances and prevents the proposed 16-unit townhouse development from moving ahead. Without rezoning approval, the property could support a maximum of eight dwelling units under the existing R5 zoning.

ANALYSIS:

A. Committee Recommendations:

At its meeting of October 12, 2022, the Advisory Planning Committee passed the following resolution:

THAT Council support Zoning Application 00385 (ZON00385) to rezone Lot 1, Sec 2, TP 8, ODYD, Plan KAP48497 (1609 43rd Avenue) from R5 – Four-plex Residential to RH2 – Stacked Row Housing Residential as outlined in the report titled "Zoning and Development Variance Permit Applications for 1609 43rd Avenue" dated September 29, 2022 and respectfully submitted by the Current Planner;

AND FURTHER, that Council's support of ZON00385 is subject to the following:

a) that a combined Multiple Family and Environmental Development Permit is ready for issuance prior to final adoption of a bylaw to rezone the property; and

- b) that a covenant, in favour of the City of Vernon, be registered on title of the land:
 - i. prohibiting health services, personal services, and retail conveniences secondary uses;
 - ii. limiting the maximum number of dwelling units to 16;
 - iii. limiting the maximum height of buildings to the lesser of 10m or 3 storeys; and
 - iv. requiring common outdoor amenity space with a playground structure;

AND FURTHER, that Council hold a public hearing, pursuant to 464(1) of the Local Government Act, on a proposed bylaw to rezone Lot 1, Sec 2, TP 8, ODYD, Plan KAP48497 (1609 43rd Avenue) from R5 – Four-plex Residential to RH2 – Stacked Row Housing Residential;

AND FURTHER, that Council be advised that Development Variance Permit Application 00569 (DVP00569) will be brought forward for Council's consideration and public input on the same date as the public hearing, to vary Zoning Bylaw 5000 for Lot 1, Sec 2, TP 8, ODYD, Plan KAP48497 (1609 43rd Avenue) by:

- a) decreasing Section 9.13.6, minimum side yard (east), from 3m to 2m for Building 2;
- b) decreasing Section 9.13.6, minimum side yard (east), from 3m to 2.6m for the portion of Building 4 being ≤ 2.5 storeys;
- c) decreasing Section 9.13.6, minimum side yard (east), from 6m to 2.6m for the portion of Building 4 being > 2.5 storeys;
- d) decreasing Section 9.13.6, minimum rear yard, from 7.5m to 3.7m for the portion of Buildings 3 and $4 \le 2$ storeys; and
- e) decreasing Section 9.13.6, minimum rear yard, from 9m to 3.7m for the portion of the Buildings 3 and 4 > 2 storeys.

B. Rationale:

- 1. The subject property is located at 1609 43rd Avenue, across from Vernon Mobile Home Park and adjacent to Vernon Springs (Figures 1 and 2). There is currently one single detached dwelling located on the property planned for demolition to allow for redevelopment (Attachment 1). Development plans are to construct a 16-unit townhouse development consisting of four, four-plex buildings (Attachment 2).
- 2. The intent of the rezoning and variance applications are to request that Council:
 - > rezone the subject property from Four-plex Residential (R5) (Attachment 3) to Stacked Row Housing Residential (RH2) (Attachment 4); and
 - > support the following variance requests for the construction of Buildings 2, 3 and 4 to decrease minimum setbacks:
 - o side yard (east), from 3m to 2m for Building 2;
 - o side yard (east), from 3m to 2.6m for the portion of Building 4 ≤ 2.5 storeys;
 - o side yard (east), from 6m to 2.6m for the portion of Building 4 > 2.5 storeys;
 - o rear yard, from 7.5m to 3.7m for the portion of Buildings 3 and 4 ≤ 2 storeys; and

- o rear yard, from 9m to 3.7m for the portion of the Buildings 3 and 4 > 2 storeys.
- 3. The site layout for the project has Buildings 1 and 2 facing 43rd Avenue with a pedestrian oriented design including direct pedestrian access to sidewalk, patios, lighting, the landscaping (Attachment 5) and decorative fencing and garages at the rear. Buildings 3 and 4 front the rear property line, also with patios, lighting, landscaping and decorative fencing and garages front the private driveway. The patio areas would meet the minimum requirement of Zoning Bylaw 5000 for the provision of private open space. Additionally, common outdoor amenity space with a playground structure is being recommended by Administration in the northwest corner of the property. Landscaping would be provided in accordance with Zoning Bylaw 5000.
- 4. Access to the development would be from 43rd Avenue adjacent to the west side property line. The private driveway is sufficiently designed to accommodate fire and rescue services in the event of an emergency. Garbage, recycling and organics collection would be through a private contractor.
- Each dwelling has a two-car garage, with four units having double garages and 12 units having tandem

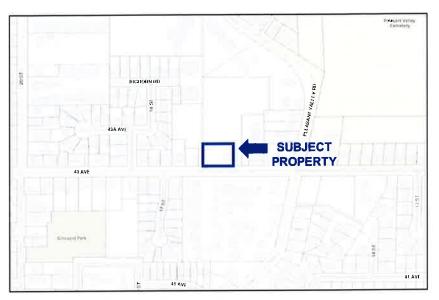


Figure 1: Property Location Map



Figure 2: Aerial Photo of Property

garages. Adequate visitor parking, accessible parking and bicycle parking would be provided as per Zoning Bylaw 5000.

- 6. Maximum height for all four buildings would be 10 meters. Buildings 1 and 2 are considered 2.5 storeys and Buildings 3 and 4 are considered three storeys. Dwelling units within Buildings 1 and 2 would have a floor area of approximately 1,238ft² with three bedrooms each. Dwelling units within Buildings 3 and 4 would have floor areas ranging from 1,135ft² to 1,655ft² with two or three bedrooms each.
- 7. The property is designated as Residential Medium Density (RMD) within the Official Community Plan (OCP). The density range within the RMD designation is between 30 units/ha (12 units/ac) and 110 units/ha (44.5 units/ac). The existing R5 zoning allows a maximum 30 units/ha, which is the low end of the RMD designation. With a lot area of 2,023.6m², the property can currently support a maximum of six dwelling units. The proposed RH2 zoning allows up to 100 units/ha (40.5 units/ac). If rezoned to RH2, the property could support up to 22 dwelling units. The 16-unit project would have a density of 79 units/ha (~31 units/ac), within the range allowed by the RMD designation and less than the maximum density allowed under the proposed zone.

8. Table 1 below compares the R5 and RH2 zones with respect to permitted housing form and density.

	Existing R5	Proposed RH2
Housing Form	 Single Detached Housing (SDH) Duplex/Semi-detached Housing Three-plex Housing Four-plex Housing Secondary Suites within SDH 	 Apartment Housing Row Housing Stacked Row Housing Semi-detached Housing Seniors Housing (55+, Supportive and Assisted)
Max. Density	30 units/ha = 6 units	100 units/ha = 20 units 110 units/ha = 22 units with housing agreement

Table 1: Zoning Comparison – Residential Uses

9. Surrounding land uses are similar and compatible with the proposed multi-family development, as shown in Table 2.

	Zoning	Actual Use
North	R5 – Four-plex Residential	Vacant
East	R5 – Four-plex Residential	Vernon Springs Multi-Family Development
South	R7 – Mobile Home Residential	Mobile Home Park
West	RH2 – Stacked Row Housing Residential	Driveway/Four-plex Housing

Table 2: Surrounding Properties – Zoning & Actual Use

- 10. The applicant compared other medium density zones including the existing R5 (Four-plex Housing Residential), RM1 (Row Housing Residential), RM2 (Multiple Housing Residential), RH1 (Low-Rise Apartment Residential and the proposed RH2 (Stacked Row Housing Residential). For the proposed 16-unit project, the RH2 zone requires the least number of variances in comparison with the other medium density zones as illustrated in Attachment 6.
- 11. The proposed decrease in side and rear yard setbacks are anticipated to have little impact on the surrounding properties. As shown on Attachment 7, the north/east property includes an environmental protection area that can not be built on and a panhandle road access to 43rd Avenue. The property to the west also includes a panhandle road access to 43rd Avenue. Both panhandles are needed to provide access and therefore can not be built on.
- 12. An Environmental Assessment (EA) has been provided (Attachment 8), as the subject property has a "medium" conservation value within an Environmental Management Area. The EA observes that the property has been significantly disturbed resulting in a low conservation value. Administration recommends that the EA be followed to ensure any existing environmental values be retained. This can be accomplished through the Development Permit and Building Permit processes.
- 13. A Geotechnical Investigation Report and Summary Letter (Attachment 9) have also been provided confirming that "from a geotechnical standpoint, the proposed development is feasible". At the building permit or subdivision stage, the owner/developer will be required to adequately address any stormwater management issues in accordance with the Subdivision and Development Servicing Bylaw 3843.

- 14. Administration supports the proposed rezoning and variance requests for the following reasons:
 - a) the proposal provides an increase in density (more housing) and maximizes the use of existing city infrastructure within the neighbourhood district, as supported by the OCP;
 - b) the units are ground-oriented townhomes with two and three bedrooms suitable for families;
 - c) form and character of the project is compatible with the existing neighbourhood character;
 - d) the owner compared the medium density zones (Attachment 6) within Zoning Bylaw 5000 and determined that the RH2 zone was the best fit for the proposed development requiring the least number of variances; and
 - e) the proposed decrease in side and rear yard setbacks are anticipated to have little impact on the surrounding properties to the north and east as that these areas are vacant and not proposed for development.

C. Attachments:

Attachment 1 - Photos

Attachment 2 – Design Drawings

Attachment 3 - R5: Fourplex Housing Residential Zone

Attachment 4 - RH2: Stacked Row Housing Residential Zone

Attachment 5 - Landscape Plan

Attachment 6 - Medium Density Zoning Comparison

Attachment 7 - Buffers

Attachment 8 - Environmental Assessment

Attachment 9 – Geotechnical Summary

D. Council's Strategic Plan 2019 – 2022 Goals/Action Items:

The subject application involves the following goals/actions items in Council's Strategic Plan 2019 – 2022:

➤ N/A

E. Relevant Policy/Bylaws/Resolutions:

- 1. Official Community Plan Bylaw 5470:
 - > OCP Designation Residential Medium Density (RMD)
 - Development District 2 Neighbourhood
- 2. Zoning Bylaw 5000:
 - Sec. 9.13 RH2: Stacked Row Housing Residential
- 3. Local Government Act:
 - Division 3 Public Hearings on Planning and Land Use Bylaws
 - Sec. 464 Requirement for public hearing before adopting bylaw
 A local government is not required to hold a public hearing on a proposed rezoning bylaw if an
 OCP is in effect for the area that is the subject of the zoning bylaw, and the bylaw is consistent
 with the OCP.

BUDGET/RESOURCE IMPLICATIONS:

N/A

Prepared by:	Approved for submission to Council:		
X Michelle Austin Current Planner	Will Pearce, CAO Date:03. MV. 2022		
X Kim Flick Director, Community Infrastructure a	nd Development		
REVIEWED WITH			
 □ Corporate Services □ Bylaw Compliance □ Real Estate □ RCMP ☒ Fire & Rescue Services □ Human Resources □ Financial Services ☒ COMMITTEE: APC (Oct. 12/22) □ OTHER: 	 ✓ Operations ✓ Public Works/Airport ☐ Facilities ☐ Utilities ☐ Recreation Services ☐ Parks 	 ☑ Current Planning ☑ Long Range Planning & Sustainability ☐ Building & Licensing ☑ Engineering Development Services ☐ Infrastructure Management ☑ Transportation ☐ Economic Development & Tourism 	

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ATTACHMENT 1



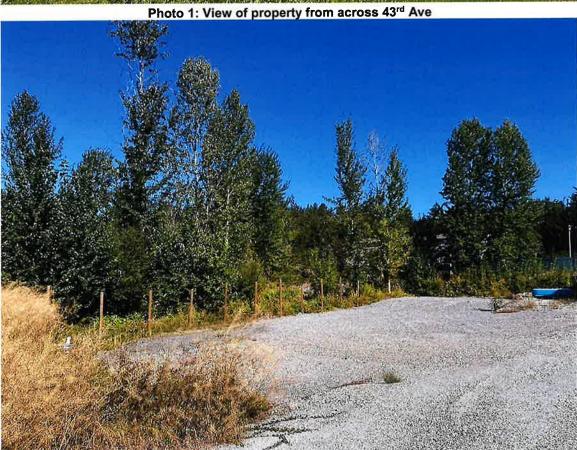


Photo 2: View of rear of property, facing NE



Photo 3: Vernon Springs entrance/side property line, facing S toward 43rd Ave



PROPOSED RESIDENTIAL DEVELOPMENT - 1609 43RD AVENUE







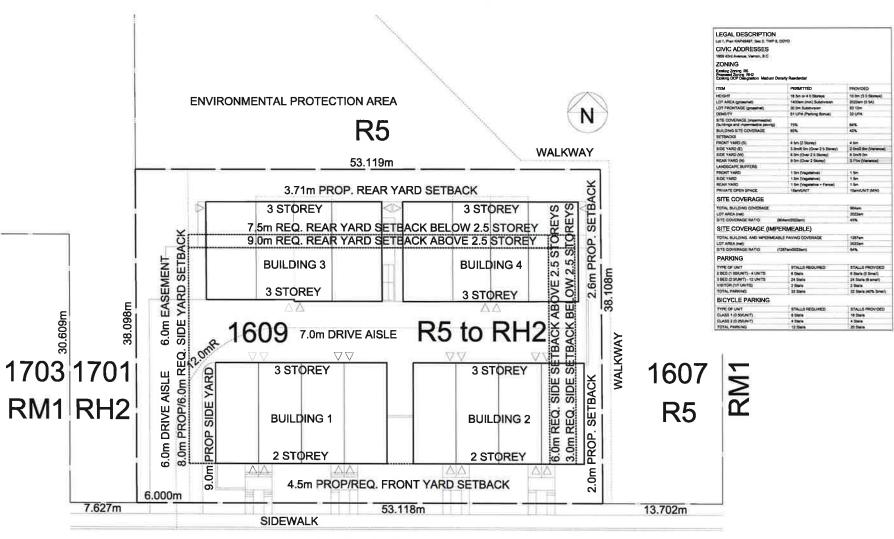


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43 AVENUE

SITE PLAN SCALE: 3/32"=1'-0" **ZONING/SETBACKS**





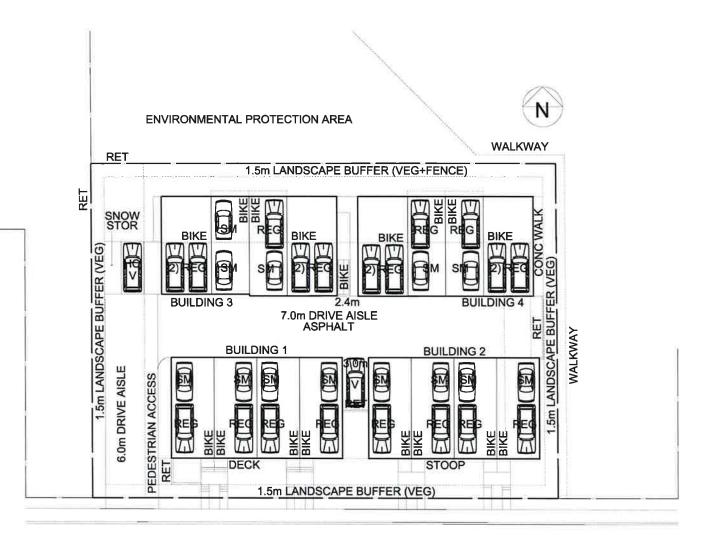
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Proposed Development

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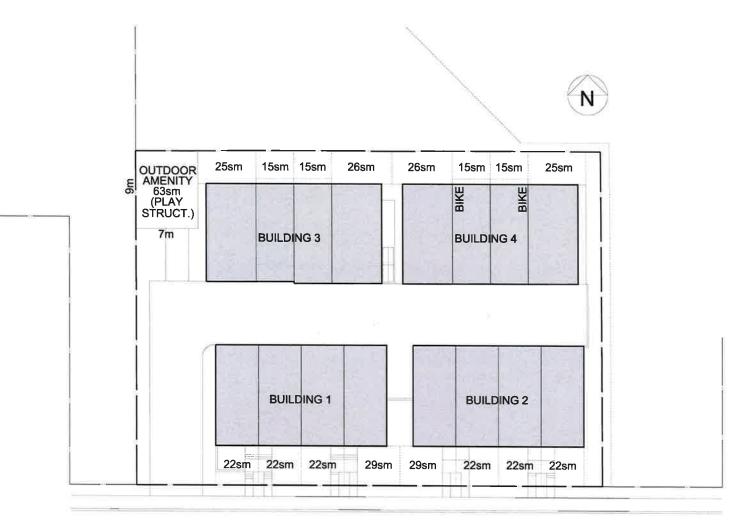
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43 AVENUE

SITE PLAN SCALE: 3/32"=1'-0" PARKING/SNOW STOR/LANDSCAPE BUFFER

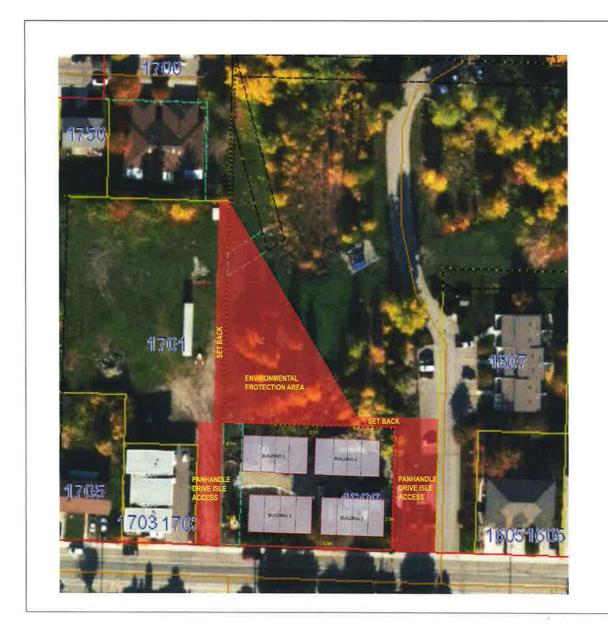




43 AVENUE

SITE PLAN SCALE: 3/32"=1'-0" OPENSPACE







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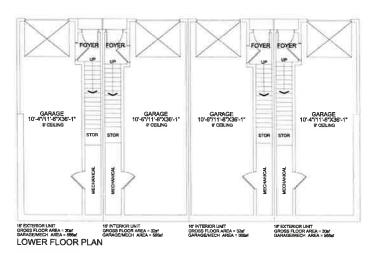
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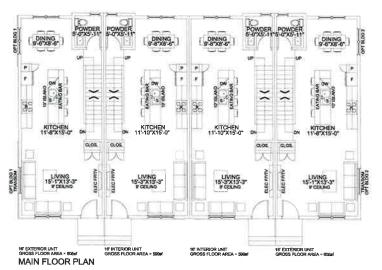
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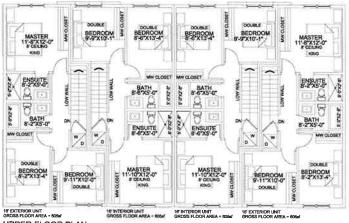
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BUILDING 1 & 2



BUILDING 1 & 2



UPPER FLOOR PLAN

BUILDING 1 & 2

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TOTAL GROSS FLOOR AREA = 1238ef



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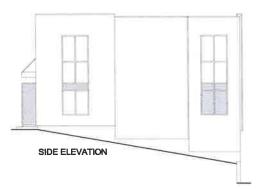
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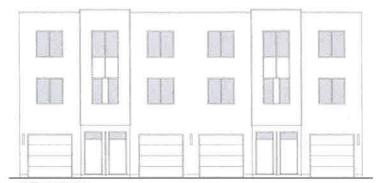
Proposed Residential **Development**

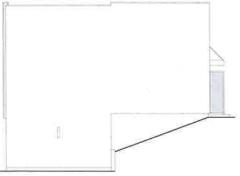
Floor Plans Bidg 1 & 2

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REAR ELEVATION

BUILDING 1 & 2

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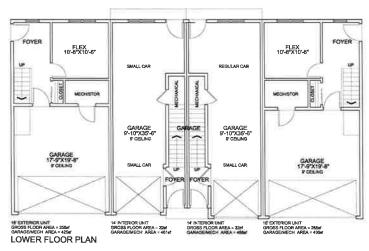
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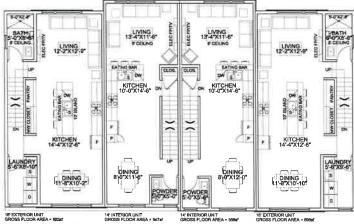
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BUILDING 3



MAIN FLOOR PLAN

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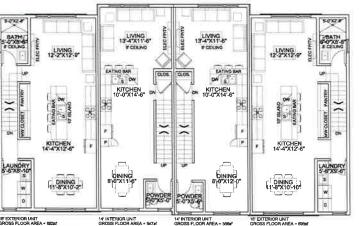
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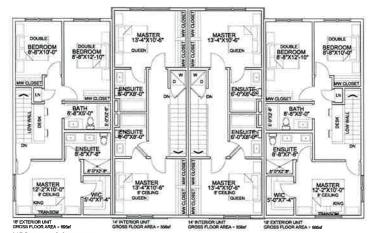
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Floor Plans Bldg 4

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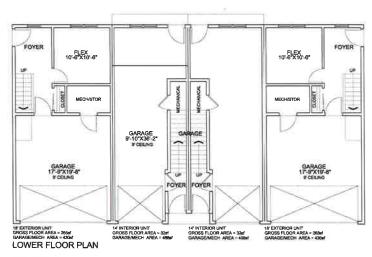
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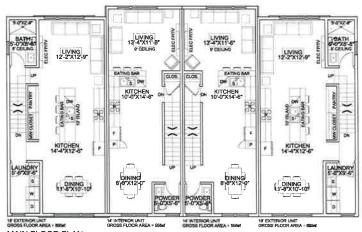
UPPER FLOOR PLAN

BUILDING 4

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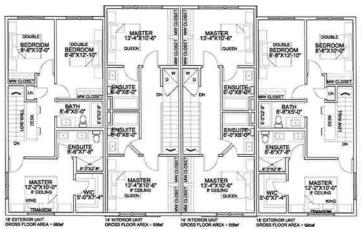


BUILDING 3



MAIN FLOOR PLAN

BUILDING 3



UPPER FLOOR PLAN

BUILDING 3 TOTAL GROSS FLOOR AREA + 18566

TOTAL GROSS FLOOR AREA = 1144ef

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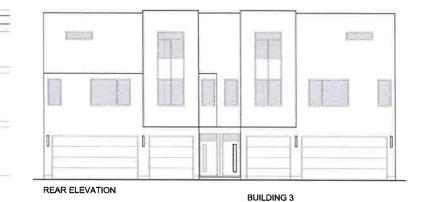


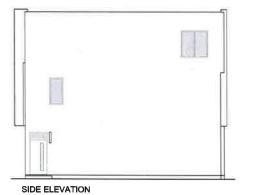
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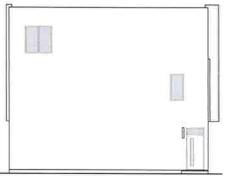
Proposed Residential Development

Floor Plans Bldg 3

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SIDE ELEVATION



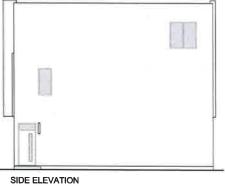
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Proposed Residential Development

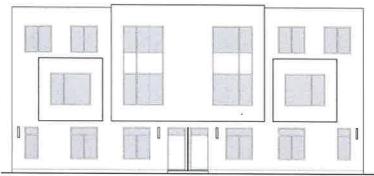
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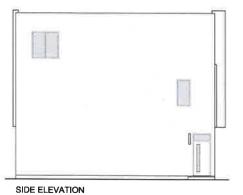
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REAR ELEVATION BUILDING 4





FRONT ELEVATION



Proposed Residential Development

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Elevations Bidg 4

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Proposed Residential Development

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VIEW FROM SOUTH WEST ON 43RD AVENUE LOOKING EAST







VIEW FROM 43RD AVENUE LOOKING NORTH



VIEW FROM NORTH WEST AT REAR LOOKING EAST



VIEW FROM SOUTH EAST ON 43RD AVENUE LOOKING WEST



VIEW FROM WEST LOOKING EAST - INTERNAL DRIVE AISLE



Proposed Residential Development

Renderings

A-107





p 250 550.7476 e dwell@telus.net

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Proposed Residential Development

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PROJECT TITLE

Lighting Plan

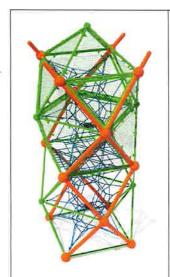
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Volcano Climber Age 5 to 12 Years Fall Zone 5.5m x 5.8m Height 2.4m



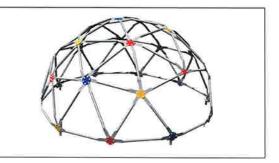
Rocket Age 5 to 12 Years Fall Zone 5.8m x 5.9m Height 2.4m





9m

7m



Fall Zone 6.1m x 6.1m

OUTDOOR AMENITY PLAN SCALE: 3/32"=1'-0" PLAYGROUND EQUIPMENT OPTIONS

Sheet Note:

Examples of playground equipment options are provided to illustrate the developer's intent. The actual product will be verified by the developer prior to purchase and installation.



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Proposed Residential **Development**

1809 43 Avenue Vertical, BC

SHEET THE

Playground Equipment



Attachment 9



P (250) 215 1206 geopacific.ca 1340 St. Paul Road Kelowna, B.C. V1Y 2E1

1609 43 Avenue GP Ltd. 2121 Longridge Drive SW, Calgary, AB T3E 5N7

Attention: Chris Pollen

November 1st, 2022 File: 20776

Re: Geotechnical Comments on Site Preparation for Proposed Residential Development 1609 43rd Avenue, Vernon, B.C.

GeoPacific has been retained to comment on the geotechnical aspects for the construction of the proposed residential development for the above referenced address in regards to our Geotechnical Investigation Report issued on April 12th, 2022. Based on architectural drawings provided by Dwell Design Studio, dated March 17th, 2022, the proposed residential development includes 4 buildings, split into 16 three storey townhome units with parking on the lowest level, and a local access road. Based on the drawings, we anticipate wood framed construction above-grade and reinforced concrete construction for floor-slabs and footing elements. GeoPacific has completed a detailed drill based investigation and recommendation report dated April 12th, 2022.

We confirm, from a geotechnical standpoint, that the proposed development is feasible.

Based on drawings provided by Lawson Engineering Ltd. (Lawson), dated September 9th, 2022, we anticipate that re-grading of the property will be completed to accommodate the development. The existing layers containing deleterious soils must be stripped from the site prior to the placement of any new fills or the construction of any roads, utilities, buildings, and retaining walls. We further confirm that the onsite groundwater conditions are considered to be perched. Excavations will likely encounter groundwater seepage and can be handled using conventional sumps and sump pump techniques.

Prior to construction of foundations, utilities, grade supported slabs, and pavement structures, all vegetation, fills, topsoil, soils containing organics, and loose or otherwise disturbed materials should be removed to expose a subgrade of silty sand, sandy silt, clayey sandy silt, sand and silt, sand, and gravelly silty sand (till). The stripping program at the site will require the removal of the organic silt layer between 1.5 m to 3 m below existing grade.

Following the stripping works, grade reinstatement will be required, we recommend the use of engineered fill. "Engineered Fill" is defined as clean sand to sand and gravel containing silt and clay less than 5% by weight, compacted in 300 mm loose lifts to a minimum of 95% Modified Proctor maximum dry density at a moisture content that is within 2% of optimum for compaction. During fill placement, benches should be cut into any sloping stripped subgrade surfaces to key the structural fill into the natural topography. Where the exposed subgrade surface slopes at greater than 20%, we recommend that the subgrade be benched, prior to placing the fill, to improve the structural integrity of the embankment. Benches should be a minimum horizontal distance of 1.0 metre before stepping to the next bench.

Stripped subgrades and engineered fill materials and compaction must be reviewed by the geotechnical engineer.

For further site specific geotechnical recommendations, our Geotechnical Investigation Report can be referenced.

We are pleased to assist you with this project and we trust this information is helpful and sufficient for your purposes at this time. However, please do not hesitate to call the undersigned if you should require any clarification or additional details.

For:

GeoPacific Consultants Ltd.

Reviewed By:

Hanneke Byl, B.A.Sc. Engineer-In-Training

Roberto Avendano, B.Eng., P.Eng., Principal Permit to Practice EGBC

NOV 0 1 2022

R5

9.6 R5: Four-plex Housing Residential

9.6.1 Purpose

The purpose is to provide a **zone** for the **development** of a maximum of four ground oriented **dwelling** units in the form of **single detached**, **semi-detached**, **duplex**, **three-plex** or **four-plex housing** on urban services. The R5c sub-zoning district allows for **care centre**, **major** as an additional use. The R5h sub-zoning district allows for **home based business**, **major** as an additional use. (*Bylaw 5467*)

9.6.2 Primary Uses4

- care centre, major (use is only permitted with the R5c sub-zoning district)
- duplex housing
- four-plex housing
- group home, major
- semi-detached housing
- single detached housing
- three-plex housing
- seniors housing

9.6.3 Secondary Uses

- boarding rooms
- care centres, minor
- home based businesses, minor
- home based businesses, major (in single detached housing only) (use is only permitted with the R5h sub-zoning district)
- secondary suites (in single detached housing only)
- seniors assisted housing
- seniors supportive housing

9.6.4 Subdivision Regulations

- Minimum lot width is 20.0m, except it is 22.0m for a corner lot.
- Minimum lot depth is 30.0m.
- Minimum lot width for single detached housing is 14.0m, except it is 16.0m for a corner lot.
- Minimum lot area for single detached housing is 450m².
- Minimum lot area is 700m², except it is 800m² for a corner lot, or 10,000m² if not serviced by a community sewer system. (Bylaw 5339)

9.6.5 Party Wall Subdivision Regulations

Lot Type	Minimun	n Lot area	Minimum Lot Width			
.1	interior	corner	interior	corner		
Semi-Detached Housing	350m²	400m ²	10.0m	12.0m		
Three-Plex Housing	235m²	285m²	7.0m	9.0m		
Four-Plex Housing	175m²	225m ²	7.0m	9.0m		

9.6.6 Development Regulations

Maximum site coverage is 40% and together with driveways, parking areas and impermeable surfaces shall not exceed 50%.

- Maximum floor space ratio is 0.6.
- Maximum height is the lesser of 10.0m or 2.5 storeys, except it is 4.5m for secondary buildings and secondary structures.
- Minimum front yard is 4.0m, except it is 6.0m for a garage or carport to the back of curb or sidewalk for a front entry garage, or it is 0.6m to the side of the garage and 2.6m to the front building façade for side-entry garage and driveway layouts.
- Minimum side yard is 2.0m for a 1 or 1.5 storey portion of a building or a secondary building or structure and 2.5m for a 2 or 2.5 storey portion of a building, except it is 4.0m from a flanking street unless there is a garage accessed from the flanking street, it is 4.0m or it is 2.6m to the building for a side-entry garage and driveway from a flanking street and at least 6.0m from the back of curb or sidewalk. Where there is no direct vehicular access to the rear yard or to an attached garage or carport, one side yard shall be at least 3.0m. The minimum side yard setback for shared interior party walls shall be 0.0m. The minimum side yard setback for single detached housing is 1.5m, except it is 4.0m from a flanking street unless there is a garage accessed from the flanking street, it is 4.0m or it is 2.6m to the building for a side-entry garage and driveway from a flanking street and at least 6.0m from the back of curb or sidewalk.
- Minimum rear yard is 6.0m for a 1 or 1.5 storey portion of a building and 7.5m for a 2 or 2.5 storey portion of a building, except it is 1.0m for secondary buildings.
- The maximum height of any vertical wall element facing a front, flanking or rear yard (including walkout basements) is the lesser of 6.5m or 2.5 storeys, above which the building must be set back at least 1.2m.
- Maximum density is 30 units per gross hectare (12 units/gross acre).
- Maximum four dwelling units located in a building, with each unit having a minimum width of 6.5m. (Bylaw 5339)

9.6.7 Other Regulations

- In order for bareland strata **developments** to be consistent with the character of the surrounding neighborhood, the strata plan shall be considered as one **site** for defining the overall use, **density** and **site coverage**.
- The above noted **subdivision** and **development** regulations shall be applied to each strata **lot** within the strata plan.
- A minimum area of 25m² of private open space shall be provided per dwelling.
- Where **development** has access to a rear **lane**, vehicular access to the **development** is only permitted from the rear **lane**.
- For seniors assisted housing, seniors housing and seniors supportive housing, a safe drop-off area for patrons shall be provided on the site.
- For strata developments, common recreation buildings, facilities and amenities may be included in the strata plan. Recreational buildings shall be treated as **secondary buildings** for the purpose of determining the **height** and **setbacks** of the **building** as specified in each **zone**.
- For multi-unit residential housing, one **office** may be operated for the soul purpose of the management and operation of the multi-unit residential **development**.
- In addition to the regulations listed above, other regulations may apply. These include the general **development** regulations of Section 4 (secondary **development**, **yards**, projections into **yards**, lighting, agricultural setbacks, etc.); the specific use regulations of Section 5; the **landscaping** and fencing provisions of Section 6; and, the parking and loading regulations of Section 7.
- As per Section 4.10.2 All **buildings** and **structures**, **excluding perimeter fencing** (garden walls and fences) on lots abutting City Roads as identified on Schedule "B" shall not be sited closer to the City Road than the setback as per the appropriate zone measured from the offset Rights of Way as illustrated on Schedule "B". (Bylaw 5440)

SECTION 9.6: FOUR-PLEX HOUSING RESIDENTIAL



9.13 RH2: Stacked Row Housing Residential

9.13.1 **Purpose**

The purpose is to provide a **zone** primarily for medium **density row housing** on urban services to front major **streets** and civic spaces.

9.13.2 Primary Uses

- apartment housing
- care centres, major
- group home, major
- row housing
- seniors assisted housing
- seniors housing
- seniors supportive housing
- stacked row housing

9.13.3 Secondary Uses

- health services
- home based businesses, minor
- personal services
- real estate sales centres (in apartment and stacked row housing only)
- retail, convenience (Bylaw 5332)

9.13.4 Subdivision Regulations

- Minimum lot width is 30.0m. For fee simple row housing, the minimum lot width is 7.5m for interior lots and 12.0m for corner lots.
- Minimum lot area is 1400m², or 10,000m² if not serviced by a community sewer system.

9.13.5 Party Wall Subdivision Regulations

Lot Type	Minimum	Lot area	Minimum Lot width		
	interior	corner	interior	corner	
Row Housing	135m²	185m²	6.5m	7.8m	

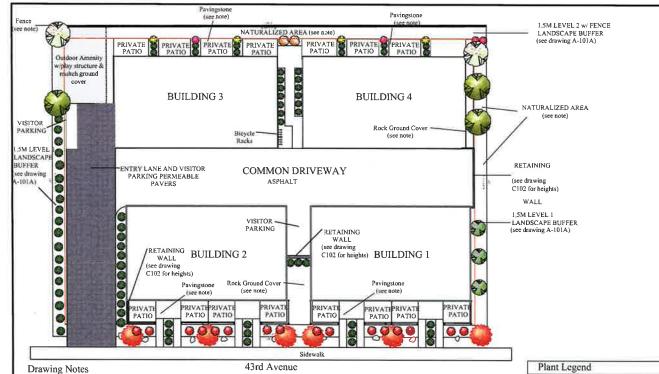
9.13.6 Development Regulations

- With a housing agreement pursuant to Section 4.9, the maximum density shall be 110.0 units per gross hectare (44.5 units/gross acre).
- Where parking spaces are provided completely beneath habitable space of a primary building or beneath useable common amenity areas, providing that in all cases the parking spaces are screened from view, the maximum density shall be 125.0 units per gross hectare (51 units/gross acre). Where all the required parking is not accommodated completely beneath the habitable space of a primary building or useable common amenity areas, the additional density permitted shall be determined through multiplying the additional 25.0 units per gross hectare (10 units/gross acre) by the percentage of parking proposed to be provided beneath habitable space of a primary building or useable common amenity areas.
- Maximum site coverage is 65% and together with driveways, parking areas and impermeable surfaces shall not exceed 75%. (Bylaw 5332)

- Maximum height is the lesser of 16.5m or 4.5 storeys, except it is 4.5m for secondary buildings and secondary structures.
- Minimum front yard is 6.0m, except it is 4.5m for any portion 2 storeys or less.
- Minimum side yard is 3.0m for a building not over 2.5 storeys, and 6.0m for portions of a building in excess of 2.5 storeys, and 6.0m from a flanking street. The minimum side yard is 0.0m for shared interior party walls.
- Minimum rear yard is 7.5m for a building not over 2.0 storeys and it is 9.0m for any part of a building over 2 storeys. It is 1.0m for secondary buildings.
- Maximum density is 100.0 units per gross hectare (40.5 units/gross acre).

9.13.7 Other Regulations

- Convenience retail services, health services and personal services are limited to a maximum floor area of 300m² total or 50% of the gross floor area of the ground storey of the primary building, whichever is the lesser, and only permitted when developed as an integral component of and within the primary building. These uses are not permitted above the ground storey. (Bylaw 5332)
- In order for bareland strata development to be consistent with the character of the surrounding neighborhood, the strata plan shall be considered as one site for defining the overall use, density and site coverage.
- The above noted **subdivision** and **development** regulations shall be applied to each strata **lot** within the strata plan.
- For multi-unit residential housing, one **office** may be operated for the sole purpose of the management and operation of the multi-unit residential **development**. (Bylaw 5440)
- Vehicular access to the development is only permitted through either a driveway shared by at least 3 units or a rear lane.
- A minimum area of 5,0m² of private open space shall be provided per **bachelor dwelling**, **congregate housing bedroom** or group home **bedroom**, 10.0m² of private open space shall be provided per 1 **bedroom dwelling**, and 15.0m² of private open space shall be provided per **dwelling** with more than 1 **bedroom**.
- No continuous **building frontage** shall exceed 45.0m for a 2 to 4 **storey building**. The **building** must be designed so as to be within one **storey** to neighbouring **development**.
- Parking shall not be constructed in the **front yard** of the property. Where the **development** has access to a rear **lane**, vehicular access to the **development** is only permitted from the rear **lane**.
- For seniors assisted housing, seniors housing and seniors supportive housing, a safe drop-off area for patrons shall be provided on the site.
- In addition to the regulations listed above, other regulations may apply. These include the general **development** regulations of Section 4 (secondary **development**, **yards**, projections into **yards**, lighting, agricultural setbacks, etc.); the specific use regulations of Section 5; the **landscaping** and fencing provisions of Section 6; and, the parking and loading regulations of Section 7. (*Bylaw 5339*)
- As per Section 4.10.2 All buildings and structures, excluding perimeter fencing (garden walls and fences) on lots abutting City Roads as identified on Schedule "B" shall not be sited closer to the City Road than the setback as per the appropriate zone measured from the offset Rights of Way as illustrated on Schedule "B". (Bylaw 5440)



Scale: 1/25" = 1ft

ROCK GROUND COVER:

The contractor shall supply and place rock ground cover to those areas shown on the drawings, Product shall be 1"-3" in diameter for areas with 20% or less slope and 4"-6" for all areas 20-33% slope to stop erosion. Product to be verified by owner prior to purchase and installation. All Rock areas to have weed barrier fabric beneath them, See drawing C102 for grading details,

NATURALIZED AREA

Areas over 33% slope will be allowed to naturalize and enhanced with a wildflower seed mix compatible with native vegetation. The final seed mix will be as per a recommendation from an Environmental Management consultant and approved by the City of Vernon development authority prior to planting.

PLANTS

All plant material to receive sufficient soil and install according to city standards.

The contractor shall supply and install 150mm depth heavy-duty edging to separate Rock areas.

The contractor shall supply and place irrigation system. All work and products shall meet the Irrigation Association of B.C. standards and specifications. All planting areas are to be irrigated with an automatically timed drip irrigation system.

The contractor shall supply and install fence as shown in drawings. All Fence areas to be a 3 rail fence. Products to be verified by owner prior to purchase and installation.

PAVINGSTONE:

The contractor shall supply and install patios according to drawings. Products to be verified by owner prior to purchase and installation,

PRIVATE AMENITY SPACE:

See A-101B - Site Plan Open space for amenity space sizes.



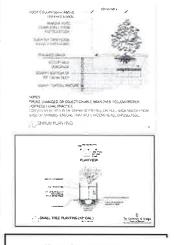


8904 Orchard Ridge Drive Coldstream, BC V1B 1Z7

tel. (780) 581 5101 creativeedgelandscapingltd@gmail.com

General Notes:

- 1. Contractor to provide I year warranty on all plant material and workmanship
- 2. Owner to verify all products prior to purchase.
- 3. Check and verify all critical details prior to the start of construction and contact this office if any clarification is required. Contractor is responsible to notify owner about any conflicting design instructions. Costs to remediate such work completed before owner can issue revisions are the sole responsibility of the Contractor.



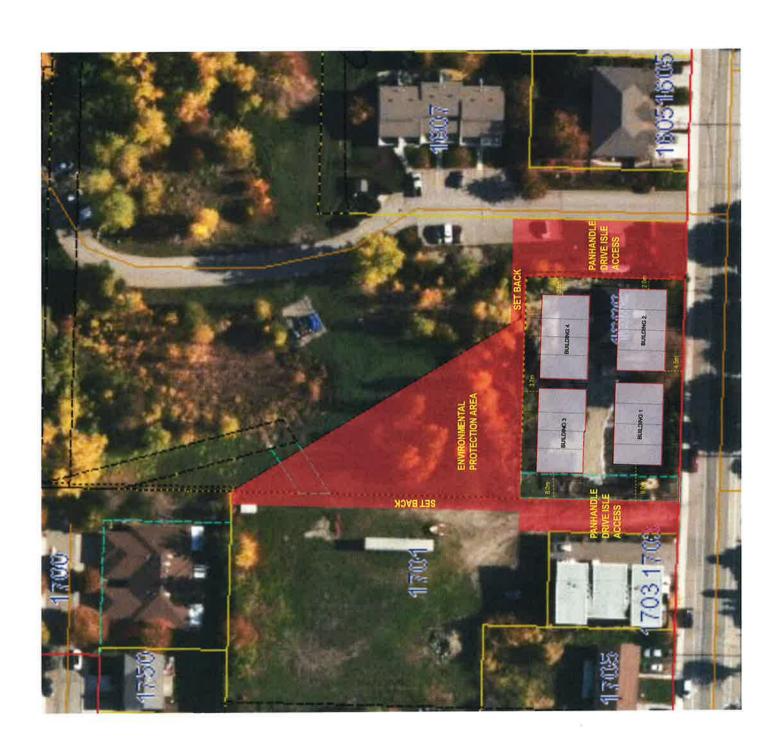
Boxfort Homes 1609 43rd Ave Vernon BC

LANDSCAPE PLAN

Medium Density Zoning Comparison Chart ZON00385/DVP00569

Site Size	0.202											
Current Zoning	R5											
OCP	RMD (between 31-110 units/ha)											
By-law Review	Description	Density	Units	Bonus	Bonus Units	Site Coverage	Impermea ble Surfaces		Storeys	Front	Side	Rear
R5	Four-plex housing Residential	30	9	None	None	40%	50%	10	2.5		2.5	7.5
RM1	Row Housing residential	48	-		11.5115						1.2	
RM2	Multiple Housing Residential	60	_							4.5		
RH1	Low-Rise Apartment Residential	1.5 FAR		1.75 FAR		65%	85%	16.5	4.5	4.5	4.5	9
RH2	Stacked Row Housing Residential	100	20	125	25	65%	75%	16.5	4.5	4.5/6 (over 2 storeys)	3/6 (over 2.5 storeys)	7.5/9 (over 2 storeys)
PROJECT		79	16	5		45%	72%	10		4.5 (2 storey)	2.04/3.97 (variance)	

Attachment 7





Phone: 250.307.2038 Email: mark@canyonwren.ca

March 29, 2022

City of Vernon 3400 – 30 Street Vernon, BC V1T 5E6 Via: Chris Pollen Email: chris@boxfort.ca

RE: Environmental Assessment for 1609 43rd Avenue, Vernon, BC (PID: 017-995-388)

To Jack Shipton,

Canyon Wren Consulting Inc. was retained by Chris Pollen of 1609 43 Ave GP Ltd. (the Proponent), to conduct an environmental site assessment for the following development proposal. The development area consists of a single lot located at 1609 43rd Ave. The Proponent is proposing to rezone from R5 to RH2 and develop a 16 unit ground-oriented townhouse project. As part of the proposal, a DVP will be sought to allow for two setback variances. First, a side yard reduction along the East property line from 3.0/6.0 m to 2.01/3.97 m. Second, a rear yard reduction along the North property line from 9.0 to 3.71 m.

Canyon Wren's role was to complete a site investigation and prepare a letter identifying environmental impacts likely to arise from proposed development, along with appropriate mitigation's.

The proposed development is located within the Cities Neighbourhood District (MA 2) and therefore requires identification and review of the following features, as per the Cities Environmental Management Areas (EMA) Strategy.

Neighbourhood District - Management Area 2

- 1. Identification of natural habitats, habitat values and features on the subject property
- 2. Waterbody identification, and Riparian Areas Protection Regulation assessment if necessary
- 3. Tree identification, protection and inclusion on a site plan
- 4. Wildlife corridor identification and protection as appropriate (based on SEI polygon data and mapping)
- 5. Identification of stormwater drainage and percentage of impervious surfaces
- 6. Landscaping requirements i.e. irrigation demand, landscaping type

OBSERVATIONS AND ASSESSMENT

Site visits conducted on November 26th, 2021 and March 17th, 2022 revealed the following, which are described in the same order as the Management Area 2 requirements identified above:

• Based on existing Terrestrial Ecosystem Mapping (TEM) and Sensitive Ecosystem Inventory (SEI) mapping, the subject property is covered by a single EMA habitat polygon (Figures 1 and 2), which is rated as having moderate conservation value (CV). Those mapping products, were prepared at a 1:20,000 mapping scale. As such, that polygon is identified as consisting of 80% IDFxh1 exposed soil (ES), 10% IDFxh1 cattail marsh (CT) and 10% IDFxh1 bulrush marsh (BM, see Table 1 below). CV rankings in mapping products of this scale, are intended to be conservative in nature. The moderate value observed in this CV ranking is a function of the two most valuable habitat components of the identified polygon, the 20% of marsh habitat. The remaining 80% is exposed soil habitat of extremely low conservation value.

Table 1. Historically observed vegetation communities within the habitat polygon encompassing the subject property and several surrounding areas.

Biogeoclimatic Zone	Site Series	Common Name	Polygon %	Status	Habitat
IDFxh1	СТ	Cattail Marsh	10	Blue listed	Typically occurs on level sites with deep, medium- textured soils. Sites are dominated by cattails with few other species.
IDFxh1	вм	Bulrush Marsh	10	Blue listed	Typically occurs on level sites with deep, fine-textured soils. Vegetation species diversity is unique but low.
IDFxh1	ES	Exposed Soil	80	NA	Areas of exposed soils and typically include recent disturbances.

- At the much finer spatial scale (1:250) of this assessment, it was observed that currently the entire subject property exists in a highly disturbed state. Site disturbance takes the form of a lawn and residence, along with what appears to be the recent creation of a large gravel parking pad with subsurface drainage leading moisture off site to the NE (Photos 1-6). An area of cattail is regenerating in the SW corner of the subject property, due to continued near-surface water flow (Photo 2). Given its extremely small size, poor condition and isolation, this area, along with the other habitats observed on site, currently have very low Conservation Value.
- A review of google earth imagery shows that in 2013 (Figure 1) approximately half the lot, with the exception of the residence, was vegetated with what appears to be a low lying wet area surrounded by dense riparian trees and shrubs. In discussions with the previous owner, he described it as a wet peat moss area with shrubs. He contends that installation by the City, of an elevated storm drain within the subject properties western boundary (visible in Fig 1 and Photo 2), has led to a blocking of subsurface water flow through the subject property, and resulted in the observed condition. In 2018, the Cities orthophotos show the active removal of vegetation (Figures 2 and 3) along with the start of gravel fill placement. Note the excavator positioned in the SW corner of the subject property.

It appears the entire area within the EMA polygon in question, has undergone the slow and deliberate removal of wetland habitats and attempted drainage redirection. During the site investigation it was noted that a "Stop Work" order had be issued for the property to the North, after recent excavation appeared to have removed riparian shrub vegetation (Figure 2 vs Photos 6 and 7). Furthermore, the presence of a small man-made bermed wetland, located just north of the subject property in a covenanted green space (Figure 3), appears to be where much of the areas near-surface water is haphazardly being re-directed (Photo 8).

- Although surface water may show in the created sedge/cattail depression, especially after rain or spring
 melt events, this is not a Riparian Areas Protection Regulation (RAPR) feature as it does not connect by
 overland flow to a RAPR feature.
- Given the quantity of near and subsurface water on the site, it is anticipated, but not confirmed that amphibian breeding may occur in the man-made bermed wetland immediately north of the subject property.
- Aside from lawn, the only vegetation present on the subject property are 2 cottonwood trees adjacent to
 the property line in the NE corner of the property (Photo 4), a non-native chestnut tree with 2 stems,
 located on the street side of the existing residence, and the sedges and cattails that are beginning to
 colonize the depression in the SW corner of the property, from where material was formerly removed
 (Photo 2). None of the trees on the subject property or any observed within the vicinity of the subject
 property, contain cavities or stick-nests.
- A regional wildlife corridor is located approximately 500 m to the north of the proposed development.
 Given the poor CV of the subject property, connectivity to this area is not considered critical.

• The total area of the subject property is 2025 m². Given the current development layout, the project will result in an area of approximately 1402 m² or 69.2 percent, of impervious surface as a result of proposed driveway, parking and residences (Figure 3). Stormwater will be directed into storm-drains.

RECOMMENDATIONS

As described in the observations and assessment section above, the proposed development site is largely disturbed with native vegetation being limited to two cottonwoods located along the NW property line. As such, impacts to wildlife habitat values and rare or sensitive plant communities will be low. To ensure that impacts to the environment from the proposed development are minimized, and do not extend beyond the existing subject property, the following mitigation measures will be adhered to:

- An environmental monitor will be retained by the Proponent, to ensure that the recommendations identified within this report are fulfilled. Site inspection frequency will be timed to key construction activities, relevant wildlife timing windows and based on weather events (e.g. after periods of intense rainfall). The monitor has the authority to halt construction activities if impacts to sensitive species, habitat features or habitats are likely to occur.
- Prior to site development, the Proponent will conduct the clearing of necessary ornamental and native trees between August 16 and March 15, to discourage nesting of migratory birds, by removing suitable habitat.
 - Active migratory bird nests are fully protected under the B.C. Wildlife Act and the federal Migratory Birds Convention Act; it is an offence to destroy nests occupied by a bird, its eggs or it's young. <u>Vegetation disturbance or removal activities during this nesting period will require an intensive series of perconstruction nesting bird surveys by a qualified wildlife biologist.</u>
- Prior to site development, amphibian breeding or use of available habitats immediately north of the subject property should be confirmed. Should Western toads (Anaxyrus boreas) or Great Basin spadefoots (Spea intermontana) be observed, an amphibian management plan should be created. The plan would address issues such as appropriate works timing restrictions, site isolation, salvage / removal, and required permitting, as necessary.
- As identified earlier, the subject property and entire EMA polygon, exhibit substantial near and subsurface water movement. This has historically manifest as small patches of wetland habitats. These wetlands have experienced what appears to be deliberate removal. It is recommended that as land manager, the City take responsibility to ensure that the flow and movement of near-surface water through this property and adjacent ones occurs in a coordinated fashion. It appears a triangular portion of the property to the north has already been covenanted for this purpose. Its current design and function however, appear lacking. Perhaps the existing bermed wetland located within that covenanted triangle could be redesigned, such that it becomes more capable of: accommodating flow from surrounding developments, acting as storm-water retention, supporting trees that contribute to climate resilience and creating diverse permanent wetland habitat for amphibians, birds and wildlife. Provided the Proponent of this project is given suitable design specifications, they could ensure near-surface flow through their site contributes to these off-site goals.
- Given the volume of near-surface water moving through the site, the Proponent will take the following precautions during construction to ensure that water is not contaminated:
 - Ensure equipment and machinery is in good operating condition, clean (power washed off-site) and free of leaks, excess oil and grease.
 - All hydraulic machinery entering the property will be equipped with environmentally sensitive hydraulic fluids that are non-toxic to aquatic life and that are readily or inherently biodegradable (e.g. Chevron Clarity AW, Enviro-Plus 46 AW, etc).

Equipment refuelling or servicing will be conducted off-site or over an approved drip pan.

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- Spill containment kits will be readily accessible on-site in the event of a release of a deleterious substance to the environment and on-site staff will be trained in their use.
- Contractors will immediately report any spill of a substance that is toxic, polluting, or deleterious to aquatic life of report-able quantities to the Provincial Emergency Program 24-hour phone line at 1-800-663-3456
- Weeds and invasive plant species are not particularly abundant within the subject property, as little vegetation exists. However, throughout construction the Proponent will:
 - o Ensure equipment and machinery is clean and power washed off-site prior to site entry
 - Implement the Environmental Monitors treatment recommendations as observations of invasive species are noted.
- Upon construction completion, it is recommended that the rear and side-yard setbacks be landscaped with primarily native trees and shrubs. This along with weed and invasive species management will help enhance the diversity and integrity of the transition between the subject property and the existing bermed wetland to the north. Suitable trees and shrubs include, but are not limited to the following: aspen, cottonwood, birch, hawthorn, pin cherry, choke cherry, dogwood, oceanspray, wildrose, highbush-cranberry, black twinberry and ninebark. A proposed landscape plan has been created and is included in Appendix I.
- All patios and sidewalks will be constructed of semi-permeable paving stones, to limit the amount of impervious surface to the greatest extent possible.
- A post-development report, outlining the degree of compliance with the above mitigation's and reviewing the success of migrations implemented during construction, will be produced and submitted to the City.

CONCLUSION

In summary, the subject property has experienced significant historical site disturbance, resulting in its low Conservation Value. The proposed development will make maximal use of this disturbance. With the identified mitigation's of; implementing wildlife timing windows, surveying and managing for at-risk amphibians, coordinating management of near-surface water movement thorough surrounding properties, implementing precautions to minimize potential contamination of near-surface ground water, directing habitat enhancement within the identified green space and native tree/shrub vegetation adjacent to its transition, the proposed development will minimize potential impacts to the greatest extent possible. Please contact the undersigned if you have any questions or to discuss this in further detail.

Sincerely,

Mark Piorecky, M.Sc., R.P.Bio. Senior Wildlife Biologist

Hack Finds

Canyon Wren Consulting Inc.



Figure 1. Subject Property in relation to surrounding land-use and wetland habitats in 2013.

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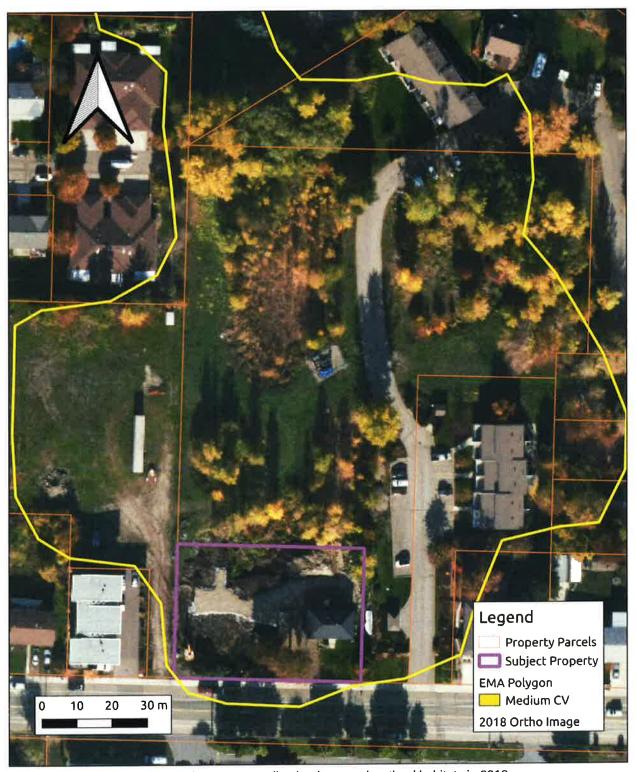


Figure 2. Subject Property in relation to surrounding land-use and wetland habitats in 2018.

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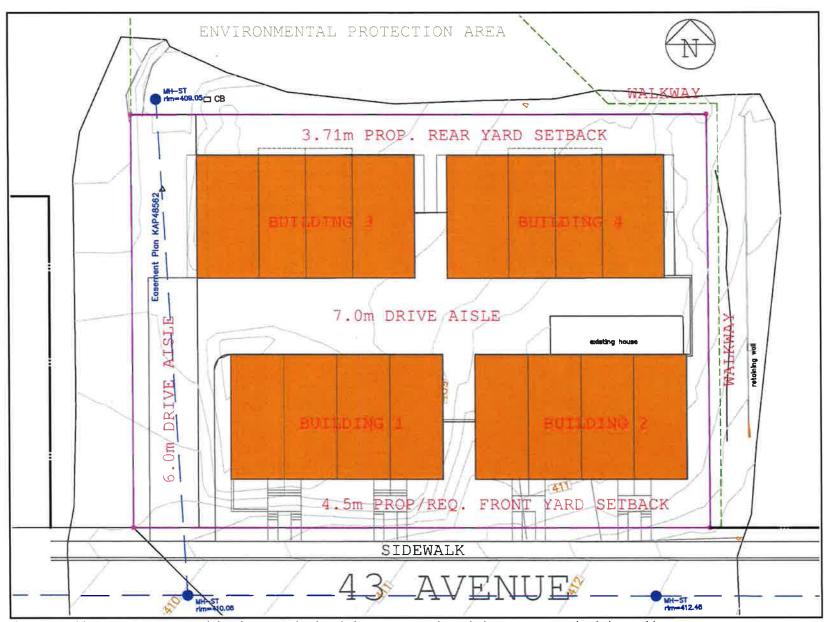


Figure 3. Subject Property proposed development plan in relation to property boundaries, contours and existing residence.

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Photo 1. Wide angle view from the centre of subject property standing on the N property line (looking S) – Nov 26, 2021.

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Photo 2. View of subject property from SW corner, berm containing City installed storm drain along west property boundary (small trailer parked on north end) and limiting water movement through the subject property, damp depression with cattails located right of centre and chestnut tree beyond (looking NE) – Mar 17, 2022.

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Photo 3. View of subject property from SW corner, existing driveway, residence and lawn (facing NW) - Mar 17, 2022.



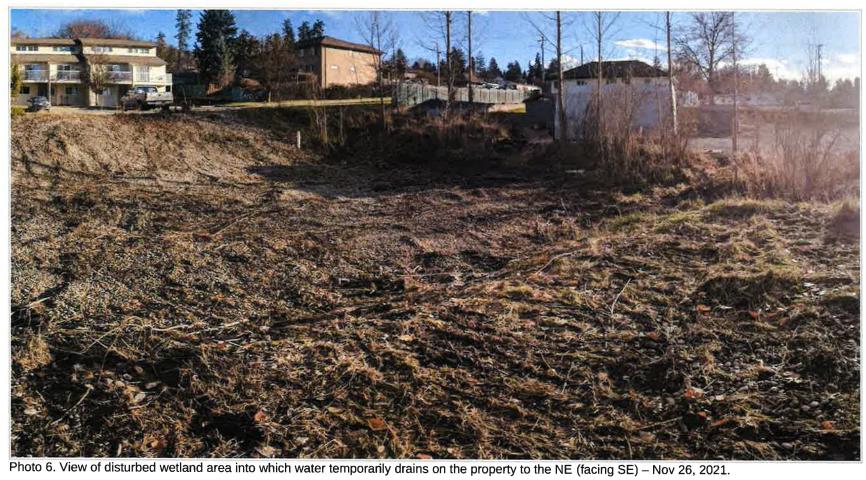
Photo 4. Standing near NE corner of property looking SW. Shed positioned very near N property boundary - Nov 26, 2021.

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Photo 5. View of subsurface site drainage in neighbouring property (facing S) – Nov 26, 2021.

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Photo 7. Recently disturbed wetland area at the far N end of the property to the N (facing N) - Nov 26, 2021.

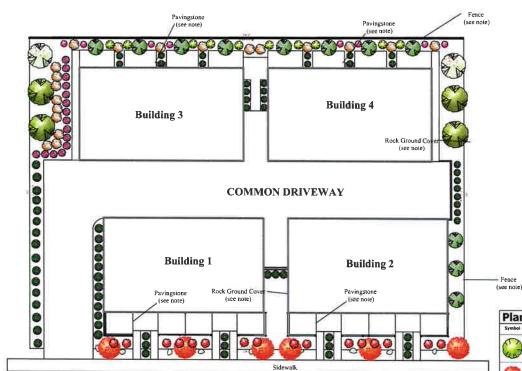


Photo 8. Bermed wetland area immediately north of subject property, into which it appears water is being directed (facing NW) - Mar 17, 2022.

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APPENDIX I. Proposed Landscape Plan

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Scale: 1/25" = 1ft

43 AVENUE

DRAWING NOTES ROCK GROUND COVER:

The contractor shall supply and place rock ground cover to those areas shown on the drawings. Product shall be 1"-3" in diameter for areas with 20% or less slope and 4"-6" for all areas greater then 20% to stop erosion. Product to be verified by owner prior to purchase and installation. All Rock areas to have weed barrier fabric beneath them.

All plant material to receive sufficient soil and install according to city standards.

The contractor shall supply and install 150mm depth heavy-duty edging to separate Rock areas.

The contractor shall supply and place irrigation system. All work and products shall meet the Irrigation Association of B.C. standards and specifications. All planting areas are to be irrigated with an automatically timed drip irrigation system.

The contractor shall supply and install fence as shown in drawings. All Fence areas to be a 3 rail fence. Products to be verified by owner prior to purchase and installation.

The contractor shall supply and install patios according to drawings. Products to be verified by owner prior to purchase and installation.

Rotanical Name	Control

Symbol	GeA	Common Name	Botanical Name	Container
	10	Highbush Cranberry	Viburnum trilobum	#2 Cont.
9	6	Autumn Blaze Maple	Acer freeman Sienica	2" cal.
	4	Columnar Norway Maple	Acer platanoides 'Columnare'	2" cal.
	15	Hidcote English Lavender	Lavandula angustifolia 'Hidcote'	#1 Cont.
	71	Karl Foerster Feather Reed Grass	Calamagrostis acutiflora 'Karl Foerster'	#2 Cont.
	19	Kesselringi Dogwood	Comus alba 'Kesselringi'	#5 Cont.
	16	Rosy Glow Barberry	Berberis thunbergii 'Rosy Glow'	#2 Cont.
	11	Swedish Columnar Aspen	Populus tremula 'Erecta'	2" cal.
	2	Chokecherry	Prunus virginiana	2@ cal.
	8	Wild Rose	Rosa acicularis	#2 Cont.

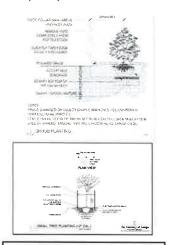


8904 ORCHARD RIDGE DRIVE COLDSTREAM, BC V1B 1Z7

TEL. (780)581 5101 creativeedgelandscapingltd@gmail.com

General Notes:

- 1. Contractor to provide 1 year warranty on all plant material and workmanship
- 2. Owner to verify all products prior to purchase.
- 3. Check and verify all critical details prior to the start of construction and contact this office if any clarification is required. Contractor is responsible to notify owner about any conflicting design instructions. Costs to remediate such work completed before owner can issue revisions are the sole responsibility of the Contractor.



CHRIS POLLEN 1609 43rd AVENUE VERNON, BC

LANDSCAPE PLAN

Attachment 9



P (250) 215 1206 geopacific.ca 1340 St. Paul Road Kelowna, B.C. V1Y 2E1

1609 43 Avenue GP Ltd. 2121 Longridge Drive SW, Calgary, AB T3E 5N7

November 1st, 2022 File: 20776

Attention: Chris Pollen

Re: Geotechnical Comments on Site Preparation for Proposed Residential Development 1609 43rd Avenue, Vernon, B.C.

GeoPacific has been retained to comment on the geotechnical aspects for the construction of the proposed residential development for the above referenced address in regards to our Geotechnical Investigation Report issued on April 12th, 2022. Based on architectural drawings provided by Dwell Design Studio, dated March 17th, 2022, the proposed residential development includes 4 buildings, split into 16 three storey townhome units with parking on the lowest level, and a local access road. Based on the drawings, we anticipate wood framed construction above-grade and reinforced concrete construction for floor-slabs and footing elements. GeoPacific has completed a detailed drill based investigation and recommendation report dated April 12th, 2022.

We confirm, from a geotechnical standpoint, that the proposed development is feasible.

Based on drawings provided by Lawson Engineering Ltd. (Lawson), dated September 9th, 2022, we anticipate that re-grading of the property will be completed to accommodate the development. The existing layers containing deleterious soils must be stripped from the site prior to the placement of any new fills or the construction of any roads, utilities, buildings, and retaining walls. We further confirm that the onsite groundwater conditions are considered to be perched. Excavations will likely encounter groundwater seepage and can be handled using conventional sumps and sump pump techniques.

Prior to construction of foundations, utilities, grade supported slabs, and pavement structures, all vegetation, fills, topsoil, soils containing organics, and loose or otherwise disturbed materials should be removed to expose a subgrade of silty sand, sandy silt, clayey sandy silt, sand and silt, sand, and gravelly silty sand (till). The stripping program at the site will require the removal of the organic silt layer between 1.5 m to 3 m below existing grade.

Following the stripping works, grade reinstatement will be required, we recommend the use of engineered fill. "Engineered Fill" is defined as clean sand to sand and gravel containing silt and clay less than 5% by weight, compacted in 300 mm loose lifts to a minimum of 95% Modified Proctor maximum dry density at a moisture content that is within 2% of optimum for compaction. During fill placement, benches should be cut into any sloping stripped subgrade surfaces to key the structural fill into the natural topography. Where the exposed subgrade surface slopes at greater than 20%, we recommend that the subgrade be benched, prior to placing the fill, to improve the structural integrity of the embankment. Benches should be a minimum horizontal distance of 1.0 metre before stepping to the next bench.

Stripped subgrades and engineered fill materials and compaction must be reviewed by the geotechnical engineer.

For further site specific geotechnical recommendations, our Geotechnical Investigation Report can be referenced.

We are pleased to assist you with this project and we trust this information is helpful and sufficient for your purposes at this time. However, please do not hesitate to call the undersigned if you should require any clarification or additional details.

For:

GeoPacific Consultants Ltd.

Reviewed By:

Hanneke Byl, B.A.Sc. Engineer-In-Training

Roberto Avendano, B.Eng., P.Eng., Principal Permit to Practice EGBC 1000782

NOV 0 1 2022