

THE CORPORATION OF THE CITY OF VERNON REPORT TO COUNCIL

SUBMITTED BY:

Michelle Austin

Current Planner

COUNCIL MEETING: REG ☑ COW ☐ I/C ☐ COUNCIL MEETING DATE: August 15, 2022

REPORT DATE: August 2, 2022

FILE: 3090-20 (DVP00558)

SUBJECT:

DEVELOPMENT VARIANCE PERMIT APPLICATION FOR 8841 ADVENTURE BAY

ROAD

PURPOSE:

To present Development Variance Permit Application 00558 (DVP00558) for Council's consideration to increase the height of a retaining wall on a residential property.

RECOMMENDATION:

THAT Council approve Development Variance Permit 00558 (DVP00558) to vary Zoning Bylaw 5000 for PCL A (BEING A CONSOLIDATION OF LOTS 7 AND 8 SEE CA9907243) DL 298 ODYD PL EPP44146 (8841 Adventure Bay Road) as outlined in the report titled "Development Variance Permit Application for 8841 Adventure Bay Road" dated August 2, 2022 and respectfully submitted by the Current Planner, by:

- a) Increasing Section 6.5.1.i, the height of a retaining wall, from 1.2m (4.0ft) to 1.5m (5.0ft) along the front and southwest side lot line within the 4.0m front yard setback; and
- b) Increasing Section 6.5.1.ii, the height of a retaining wall, from 2.0m (6.4ft) to 2.5m (8.3ft) along the southwest side lot line behind the front yard setback:

AND FURTHER, that Council's approval of DVP00558 is subject to the following:

- a) That the driveway and proposed residential unit(s) be constructed to utilize the existing grade; and
- b) That the retaining wall complies with an updated site plan, elevations, and cross sections to be attached to and form part of DVP00558, with the retaining wall being setback three feet from the side property line.

Note: The recommendation is a modified version of the requested variances.

ALTERNATIVES & IMPLICATIONS:

- 1. THAT Council approve Development Variance Permit 00558 (DVP00558) to vary Zoning Bylaw 5000 for PCL A (BEING A CONSOLIDATION OF LOTS 7 AND 8 SEE CA9907243) DL 298 ODYD PL EPP44146 (8841 Adventure Bay Road) as outlined in the report titled "Development Variance Permit Application for 8841 Adventure Bay Road" dated August 2, 2022 and respectfully submitted by the Current Planner, by:
 - a) Increasing Section 6.5.1.i, the height of a retaining wall, from 1.2m (4.0ft) to 2.5m (8.3ft) along the front and southwest side lot line within the 4.0m front yard setback; and
 - b) Increasing Section 6.5.1.ii, the height of a retaining wall, from 2.0m (6.4ft) to 3.6m (11.7ft) along the southwest side lot line behind the front yard setback;

AND FURTHER, that Council's approval of DVP00558 is subject to the following:

- a) That the retaining wall complies with the elevations (Attachment 2), site plan (Attachment 3) and cross sections (Attachment 5) to be attached to and form part of DVP00558, except that the retaining wall be setback three feet from the property line; and
- b) That the vertical block concrete wall be stained with a color that blends in with the natural surroundings, to the satisfaction of Administration.

Note: Alternative 1 would allow the owner to build the retaining wall as proposed.

ANALYSIS:

A. Committee Recommendations:

At its meeting of July 19, 2022, the Advisory Planning Committee passed the following resolution:

"THAT Council approve <u>a modified version of</u> Development Variance Permit 00558 (DVP00558) to vary Zoning Bylaw 5000 for PCL A (BEING A CONSOLIDATION OF LOTS 7 AND 8 SEE CA9907243) DL 298 ODYD PL EPP44146 (8841 Adventure Bay Road) as outlined in the report titled "Development Variance Permit Application for 8841 Adventure Bay Road" dated July 5, 2022 and respectfully submitted by the Current Planner, by:

- a) Increasing Section 6.5.1.i, the height of a retaining wall, from 1.2m (4.0ft) to 1.5m (5.0ft) along the front and southwest side lot line within the 4.0m front yard setback; and
- b) Increasing Section 6.5.1.ii, the height of a retaining wall, from 2.0m (6.4ft) to 2.5m (8.3ft) along the southwest side lot line behind the front yard setback;

AND FURTHER, that Council's approval of DVP00558 is subject to the following:

- i. That the driveway and proposed residential unit(s) be constructed to utilize the existing grade; and
- ii. That the retaining wall complies with an updated site plan, elevations, and cross sections to be attached to and form part of DVP00558, with the retaining wall being setback three feet from the side property line."

B. Rationale:

- 1. The subject property is located at 8841 Adventure Bay Rd near the end of the culde-sac (Figures 1 and 2).
- 2. The owner recently consolidated two lots to create the existing 701.1 m² lot. It is vacant but has been graded in preparation for construction of a single detached house or a semi-detached building (Attachment 1 and 2), with a one storey level entry at the front and a three storey walk out at the rear. House plans were not submitted with the variance application.

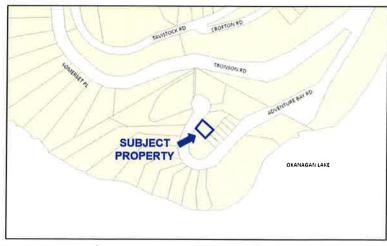


Figure 1: Property Location Map

The property is zoned R5 (four-plex housing residential). With a lot area of 701.1 m², it can support a maximum of two units: a duplex, a semi-detached building or two single detached homes.

- Based on the proposed level grade, the owner requests to vary the height of a retaining wall (Attachments 2 - 4) as follows:
 - To increase retaining wall height from 1.2m (4.0ft) to 2.5m (8.3ft) along the front and southwest side lot line within the 4.0m front yard setback; and,
 - To increase retaining wall height from 2.0m (6.4ft) to 3.6m (11.7ft) along the southwest side lot line behind the front yard setback.
- 4. The natural grade of the lot slopes downhill in a southeast direction from Adventure Bay Road, with an average slope of 23%. Historically fill was placed on the lot to raise the building pad approximately 2m (7ft). Approximately 1.2m (4ft) in depth of additional fill is proposed to be placed to further raise the building pad and create a level driveway. The greater the depth of fill, the higher the retaining wall needs to be to support the upslope land.



Figure 2: Aerial View of Property

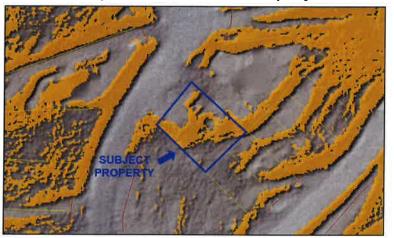


Figure 3: ≥30% Slopes & Hillshade

- 5. The proposed retaining wall consists of grey verti-blocks that are each two feet high, four feet wide, with varying depths (Attachment 5) (https://verti-block.com/residential/). It is possible to color stain these blocks so that they better blend in with the surroundings (https://verti-block.com/residential/).
- 6. There are potential alternatives available to reduce the necessary height of the retaining wall:
 - While a level driveway is desirable, it may not be necessary. The existing grade may be utilized rather than adding more fill to raise the grade to create a level entry to the house. Subdivision and Development Servicing Bylaw #3843 allows a maximum 8% driveway grade within the boulevard. Less fill and a sloping driveway would lower the house and reduce the necessary retaining wall height. Views from the subject property toward the lake would be diminished by lowering the elevation of the house.
 - It may be possible to engineer the slope to avoid the use of a retaining wall altogether. This
 alternative may result in a smaller building pad in order to create a gentler slope along the side
 property line.

- 7. Although the proposed retaining wall is high (3.6m/11.7ft), views of it from surrounding properties should be minimal for a couple of reasons: main views face southeast toward the lake as opposed to northeast toward the wall and several of the surrounding properties are still vacant.
- 8. Administration supports a modified variance to retaining wall height for the following reasons:
 - a) It attempts to balance the owner's desire to maximize views, construct a level driveway and a three storey walk out, with maintaining the natural character of the residential neighbourhood.
 - b) Although retaining walls are common in hilly areas, it is preferred planning practice to work with the natural slope of the land, avoiding excessive fill and high retaining walls that can impact the neighbours and the residential character of the neighbourhood.
 - c) Fill has already been placed on the property, raising the elevation of the building platform. There are potential alternatives to a ~12ft high retaining wall including a sloped driveway accessing the main floor of a house at a lower elevation than what is proposed or an engineered slope.

C. Attachments:

Attachment 1: Photos Attachment 2: Elevations Attachment 3: Site Plan

Attachment 4: Retaining Wall Regulations

Attachment 5: Cross Sections

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

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

> N/A

E. Relevant Policy/Bylaws/Resolutions:

- 1. Zoning Bylaw 5000, 6.5 Fencing and Retaining Walls
 - 6.5.1 Subject to traffic sight lines, the following height limitations shall apply to fences, walls, chainlink fences and hedges in all Residential zones:
 - i) 1.2m (4.0ft) if situated along the lot lines within front yard setbacks;
 - ii) 2.0m (6.4ft) if situated behind the front yard setback;
 - iii) 2.0m (6.4ft) if situated along the interior and exterior and/or rear yard.

BUDGET/RESOURCE IMPLICATIONS:

N/A

Prepared by:	Approved for submission to Council:	
X Mulelle Austin Planner, Current Planning X Signer 2 Kim Flick Director, Community Infrastructure and Development		
REVIEWED WITH		
 □ Corporate Services □ Bylaw Compliance □ Real Estate □ RCMP □ Fire & Rescue Services □ Human Resources □ Financial Services ☑ COMMITTEE: APC (July 19/2022) □ 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



Photo 1: Verti-blocks, site fill and grading and silt fencing (approx. location of retaining wall)



Photo 2: Site fill and grading

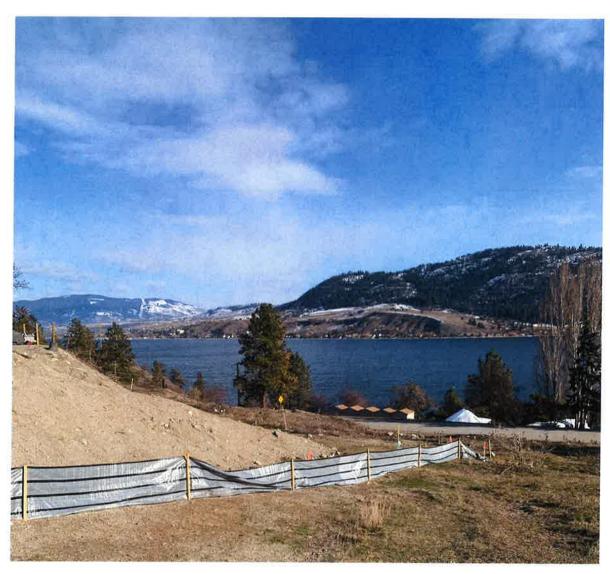


Photo 3: View toward lake



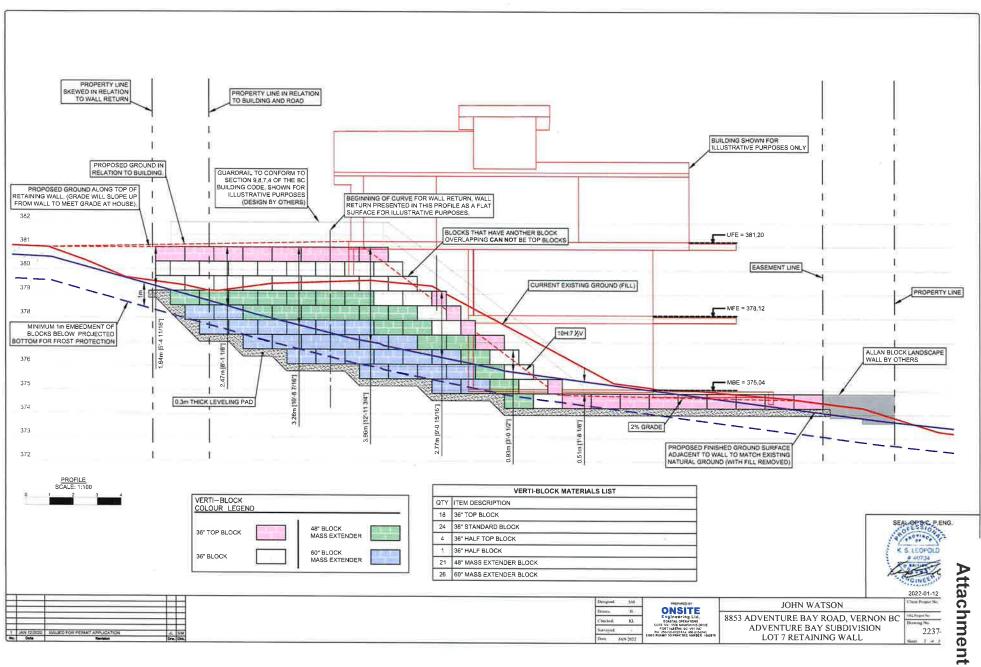
Photo 4: Vacant property adjacent to proposed retaining wall

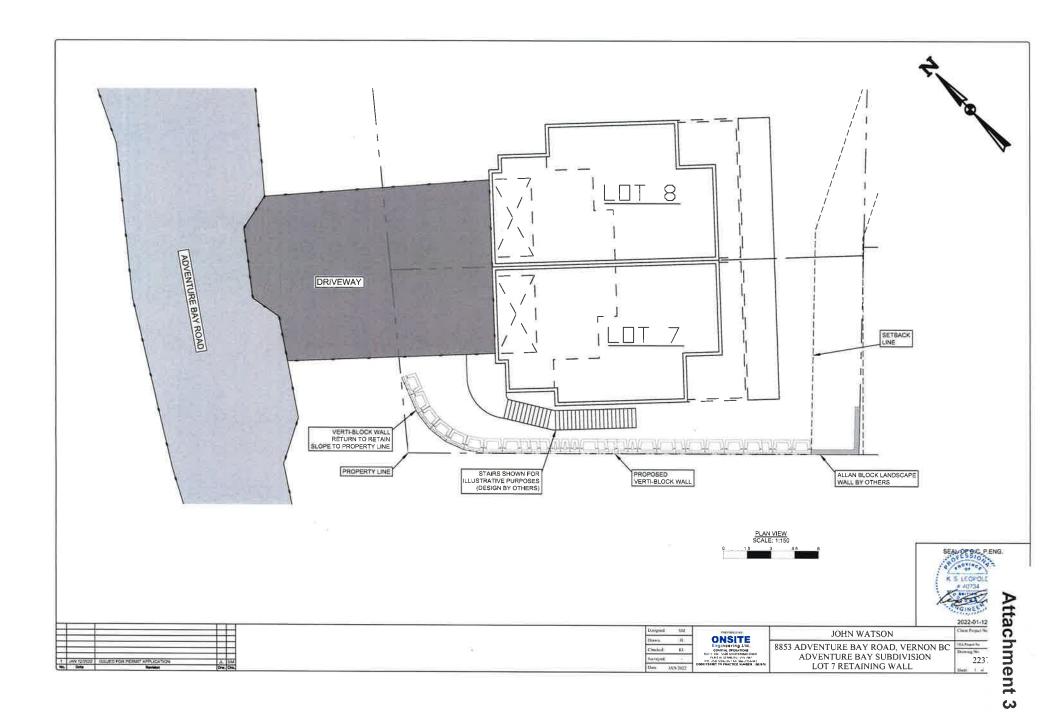


Photo 5: View of graded site at hairpin corner of road



Photo 6: View of graded site just after hairpin





6.5 Fencing and Retaining Walls

- 6.5.1 Subject to traffic sight lines, the following **height** limitations shall apply to **fences**, walls, chainlink **fences** and hedges in all **Residential zones**:
 - i) 1.2m (4.0ft) if situated along the lot lines within front yard setbacks;
 - ii) 2.0m (6.4ft) if situated behind the **front yard setback**;
 - iii) 2.0m (6.4ft) if situated along the interior and exterior and/or rear yard.
- 6.5.2 Screen **fences** shall be consistent with the quality of **building** design and materials of the primary **building**.
- 6.5.3 Screening **fences** required for outdoor storage areas for temporary shelters shall be a combination of opaque and translucent or lattice design to ensure nature surveillance is permitted into the space. Screen **fences** and walls shall complement **building** design and materials. (Bylaw 5788)
- 6.5.4 Fencing type may be established in neighbourhood plans, building schemes or by precedent from **adjacent** properties.
- 6.5.5 Wood fences shall be designed to a high level of finish with materials of lumber grade standard or better. Wood posts shall be treated against rotting to provide for the longevity of the fence. Fences shall be constructed with all components of sufficient size, materials, and strength

- to prevent sagging and to minimize rot. Along sloping ground, the top of wood **fences** shall be horizontal with vertical drops at the posts.
- 6.5.6 Screening **fences** shall be opaque double-sided **construction**. Where screen **fences** are allowed or required by this Bylaw, they shall be of an opaque or a combination of opaque, translucent or lattice design.
- 6.5.7 No fence constructed at the natural grade in residential zones, shall exceed 2.0m in height, except where abutting an agricultural or commercial zone the maximum height is 2.4m. No fence shall have pickets or finials extending above the horizontal rail that may pose a danger to wildlife. (Bylaw 5890)
- 6.5.8 No fence in a commercial or industrial zone shall exceed 2.4m.
- 6.5.9 Industrial zones are to have an opaque 2.4m high fence along all property lines abutting non-industrial zones and around wrecking yards that are visible from a street abutting the property.
- 6.5.10 No barbed wire or electrified fencing shall be allowed in any **residential**, **commercial**, **public** or **industrial zones** except:
 - in RR zone for use in livestock enclosures; and
 - in P2 zone where the site is used for detention and correctional services.

Razor wire fences shall not be permitted in any zone.

- 6.5.11 Retaining walls on all residential lots, except those required as a condition of subdivision approval, must not exceed a height of 1.2m measured from grade on the lower side, and must be constructed so that multiple retaining walls are spaced to provide at least a 1.2m horizontal separation between them.
- 6.5.12 In the case of a **retaining wall** constructed in accordance with Section 6.5.11, the combined **height** of a **fence** on top of a **retaining wall** at the **property line** or within 1.2m of the **property line** shall not exceed 2.0m, measured from **natural grade** at the **property line** (see Diagram 6.1).
- 6.5.13 Notwithstanding Section 6.5.11, a **retaining wall** may be higher than 1.2m, measured from grade, where the **natural grade** of the subject property is lower than the **abutting** property (see Diagram 6.2).
- 6.5.14 In the case of a **retaining wall** constructed in accordance with Section 6.5.13, the maximum **height** of a **fence**, or portion of **retaining wall** extending above the **natural grade** of the **abutting** higher property, or combination thereof, shall be 2.0m, measured from the **natural grade** of the **abutting** higher property (see Diagram 6.2).

SECTION 6: LANDSCAPE & SCREENING
ZONING BYLAW NO. 5000 (2003)

6.5.15 Notwithstanding Section 6.5.14, where an affected property remains at natural grade and the subject property constructs a retaining wall and a fence within 1.2m of the property line, the maximum height for a fence on the affected property shall be no greater than 1.8m above the height of the retaining wall or 2.0m whichever is less (see Diagram 6.1). (Bylaw 5440)

Diagram 6.1

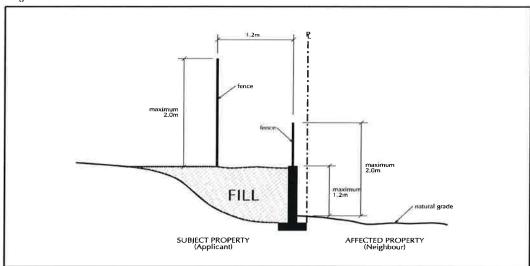


Diagram 6.2

