12258 Harris Rd, Pitt Meadows, BC
Arborist Report & Tree Protection Plan
May 2021

Prepared for:
Prism Construction Ltd
201-1525 Cilveden Avenue
Delta, BC V3M 6L2

Prepared by:

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ISA Certified Arborist #UI-0484A, ISA Tree Risk Assessment Qualified

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Arborist Report and Tree Protection Plan

Site Address: 12258 Harris Road, Pitt Meadows, BC V3Y 2E9

Inspection Date: February 14th 2019

Inspecting Arborist: Craig Southwell (ISA Cert Arb #UI-0484A, Certified Tree Risk Assessor)

Inspection Brief: Carry out an inspection of the trees on the property and on neighbouring land close to the boundary. Report on the condition of the trees, their suitability for retention and the measures required to protect any retained trees during the proposed construction activity.

Background: The site is occupied by a single commercial building. The proposed development will involve the demolition of the existing structure and the construction of a mixed use structure including parking and landscape. Two small trees are recommended for removal based on their condition and position. A further five trees along the south edge of the site could be retained but may need to be removed if the raised planter in which they are growing is to be removed. Two trees can be retained and will be protected throughout the development of the site.

Supporting Documents: The following documents were supplied by Prism Construction Ltd. to aid in the inspection of the trees and the production of this report:

1. Site plan prepared by KCC Architecture issued 2019 02 05.

Tree #	Species	Diameter cm	Height m (Approx)	Crown Radius m	Condition	Comments	Recommendations	Protection Distance m
1	Pin Oak (*Quercus palustris*)	62	18	5	G	Positioned between the sidewalk and the existing building.	Retain.	3.6
2	London Plane (*Platanus x acerifolia*)	45	16	5	G	Outside of property line. Close to curb edge.	Retain.	2.7
3	Red Alder (*Alnus rubra*)	22,20	9	3	F	Twin stem tree at the edge of the site. Tree structure and species will result in limited useful life expectancy.	Remove.	NA
4	Western Red Cedar (*Thuja plicata*)	15	9	3	F	Multiple stems from ground level. Tree structure will result in limited useful life expectancy.	Remove.	NA
5	Arborvitae Cedars (*Thuja occidentalis*)	15	6	1	F	Five trees growing in raised planter along the south boundary.	Remove if planters are being removed.	1.5

Notes:

-Some measurements were estimated due to constraints such as access or visibility

-Diameter was measured at 1.4 metres above ground level. Multi-stem trees had all stems measured.

-Tree protection distances given as radius from the main trunk

-Condition: G=Good; F=Fair; P=Poor; D=Dead

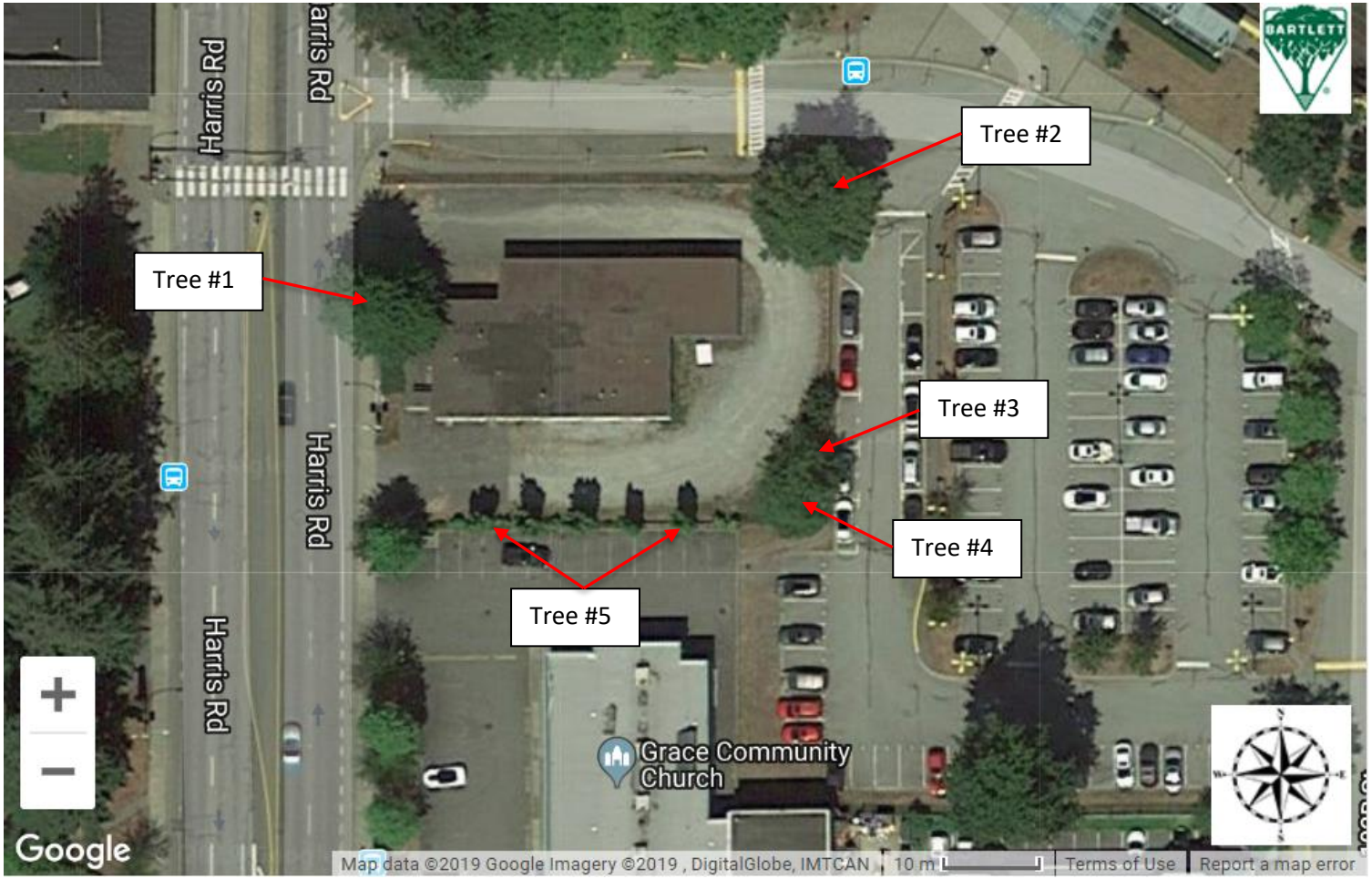
Method Statement for Tree Protection and Management:

- Trees #1 and #2 will both have construction activity take place within their tree protection zones if they are retained. Tree #2 also has a somewhat limited root zone to the north and east because of the existing road. Before work can commence within the protection zones of these trees, the area should be excavated with an Airspade to ascertain the extent of the roots present. Depending on the extent of root growth in the area to be excavated, it may be possible to retain these trees. However, if significant structural and/or feeder roots are to be lost during the construction they may need to be removed. The construction work within the tree protection zones may result in the decline or instability of the trees.
- Tree protection must be installed before construction commences and must remain in place until all activity has been completed. Tree protection fences must not be breached or moved without consulting a Certified Arborist. Materials, equipment etc. must not be stored within the tree protection zone.
- Given the proximity of tree 1 to existing structure, it will not be possible to establish root protection zones to the full extent required. Fences should be installed as close as possible to the structure and may need to be moved during the project, under the supervision of a Certified Arborist. Any work carried out in the tree protection zones must be supervised by a Certified Arborist.
- Any construction activity carried out within the tree protection zone must be carried out by hand to avoid damage to the roots and/or compaction of the soil. An airspade should be used to expose roots before excavation takes place.
- Depending on the weather during the construction period, irrigation may be required. Entire root zones should be watered heavily and infrequently (once every 7 days). Any exposed roots must be covered with burlap and kept moist.
- Deep root fertilization of retained trees may be required after construction for 1-2 years depending on impact to root zone from construction.
- Compaction of soil in the root zones should be alleviated with an airspade as soon as practically possible.

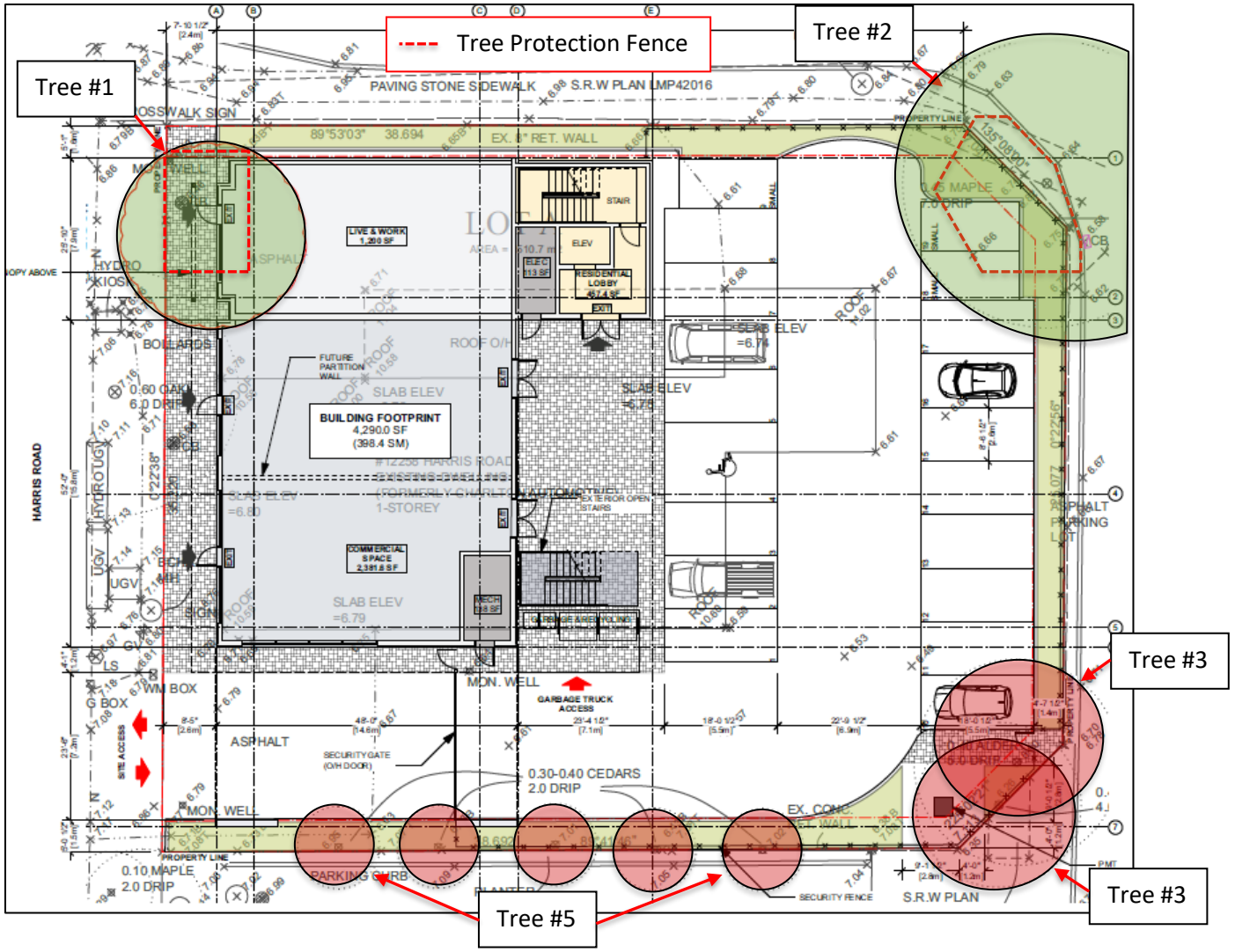
Summary:

- Tree pruning work should be carried out before construction activity commences.
- Failure to implement tree protection and/or follow up remedial care may result in tree injury or death.
- Permits may be required before trees can be removed.
- Tree replacements may be required by the municipality as a condition of tree removal permits.
- While the assessor is a qualified tree risk assessor this report is not to be considered a risk assessment.
- Please note it is the responsibility of the property owner to ensure that the Certified Arborist is on site during any required excavation and to sign off on the tree protection fencing.

Appendix 1: Site Plans



Aerial photo of the site showing the existing layout.



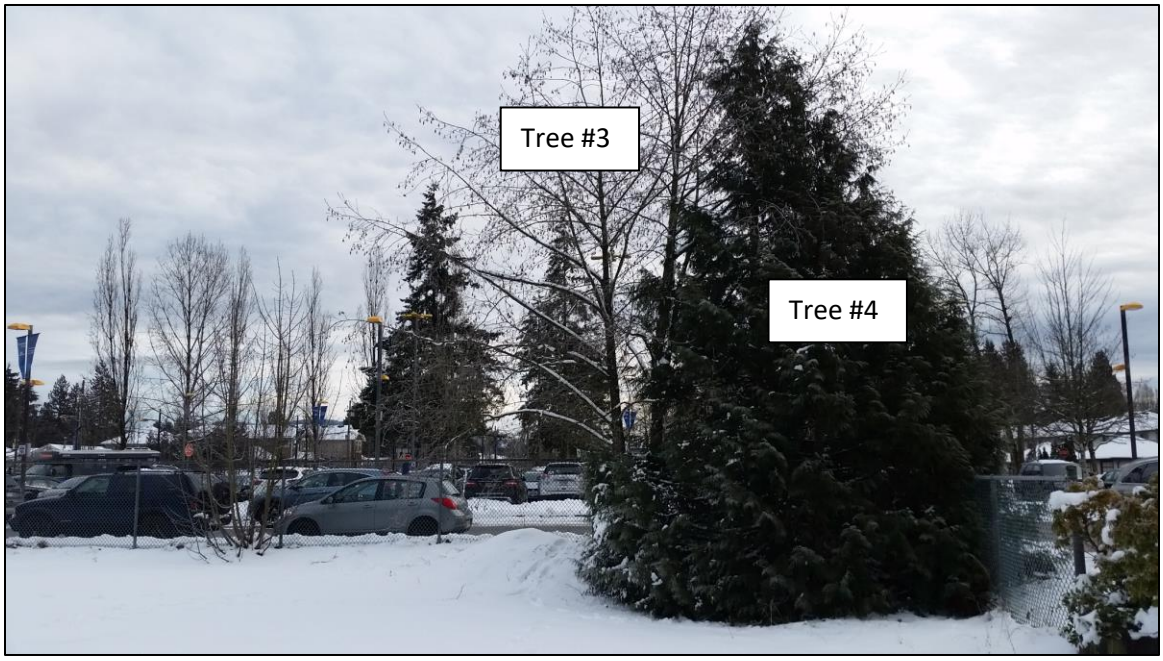
Site Plan showing proposed layout and approximate tree protection fencing.

Appendix 2: Photographs

Trees #1 Pin Oak at the front of the property.

Tree #2 London Plane at the north east corner of the property.

The base of tree #2 in close proximity the edge of the street.



Trees at the south east corner of the site to be removed.

Five Arborvitae Cedars within raised planter on the south side of the site.

Appendix 3: Tree Protection Recommendations

TRUNK DIAMETER X (cm)	MINIMUM PROTECTION REQUIRED AROUND TREE- DISTANCE FROM TRUNK Y (m)
20 cm	1.2 m
25 cm	1.5 m
30 cm	1.8 m
35 cm	2.1 m
40 cm	2.4 m
45 cm	2.7 m
50 cm	3.0 m
55 cm	3.3 m
60 cm	3.6 m
75 cm	4.5 m
90 cm	5.0 m
100 cm	6.0 m