

Report to Development Permit Panel

To: Development Permit Panel

Date: September 25, 2019

From: Wayne Craig

File: DP 18-820689

Director of Development

Application by Integrated Construction for an Environmentally Sensitive Areas

Development Permit at 1600 Savage Road

Staff Recommendation

That an Environmentally Sensitive Area (ESA) Development Permit be issued at 1600 Savage Road in order to allow construction of a warehouse building on a site partially designated as an ESA.

Wayne Craig

Director of Development

WC:je Att. 6

Re:

Staff Report

Origin

Integrated Construction has applied to the City of Richmond for an Environmentally Sensitive Area (ESA) Development Permit to construct a 2,918 m² (31,415 ft²) warehouse building at 1600 Savage Road (Attachment 1). As the construction would impact an ESA, a Development Permit is required prior to Building Permit approval.

The site is currently developed as a paved parking lot. No rezoning is needed as the proposed use is consistent with the 'Light Industrial (IL)' zone.

Development Information

Please refer to the attached Development Application Data Sheet (Attachment 2) for a comparison of the proposed development data with the relevant Bylaw requirements.

Background

Development surrounding the subject site is as follows:

- to the north across River Road, City-owned land zoned Light Industrial (IL) and designated as Environmentally Sensitive Area (ESA);
- to the east, an industrial building on a lot zoned 'Light Industrial (IL)' and partially designated as ESA;
- to the south, an industrial building with outdoor storage on a lot zoned 'Light Industrial (IL)';
 and
- to the west across Savage, an industrial building on a lot zoned 'Light Industrial (IL)'.

Staff Comments

The proposed scheme attached to this report has satisfactorily addressed the significant Environmentally Sensitive Area (ESA) issues and other staff comments identified as part of the review of the subject Development Permit application (DP Plans 1, 2, 3, 4.a, 4.b and 5). In addition, it complies with the intent of the applicable sections of the Official Community Plan and is generally in compliance with the Light Industrial (IL) zone. No variances are being sought through this ESA Development Permit application.

Advisory Design Panel

As the scope of this Development Permit does not involve any building design components, the application has not been reviewed by the Advisory Design Panel.

Analysis

Site Planning

1600 Savage Road is a 5,257 m² (1.3 acre) parcel zoned Light Industrial (IL) and designated Industrial in the Official Community Plan. An Environmentally Sensitive Area (ESA)

designation is present on portions of the property and requires that a Development Permit be issued prior to construction. There are two distinct ESA on site: the northern ESA (approximately 788 m²/8,482 ft²), which is predominantly 'Upland Forest' with a small sliver of 'Shoreline' ESA along the northern property line; and a central, disconnected ESA (approximately 198 m²/2,131 ft²) that is entirely classified as 'Upland Forest' (Attachment 3).

The applicant proposes to remove the Upland Forest ESA at the centre of the site to enable development of a warehouse with associated office space, loading and surface parking. The proposed two storey warehouse is 2,918 m² (31,415 ft²) and 11.1 m (36.5 ft) in height. The proposal includes four loading bays: two located on either side of the front elevation in order to serve separate operational requirements of the business. Two vehicle driveways are proposed from Savage Road to facilitate loading from each of the loading areas; one at the southern corner of the site (currently existing) and a second access to the north near River Road.

To compensate for removing the central ESA area, the applicant proposes to establish two new ESA areas on-site (DP Plan 1):

- 305 m² (3,283 ft²) of new ESA contiguous with the existing northern portion of Upland ESA; and
- 109 m² (1,173 ft²) of new, discontinuous ESA along the western property boundary adjacent Savage Road.

Net gain in total ESA over the site would be 216 m² (2,325 ft²). Additional compensation measures proposed include the removal of invasive species and replanting of native species within the existing ESA to be retained and within the new ESA to be established.

ESA Environmental Inventory

The City of Richmond identifies the Environmentally Sensitive Area (ESA) on this site as predominantly 'Upland Forest' with a small sliver of 'Shoreline' ESA along the northern property line. The northern portion of Upland Forest ESA is contiguous with ESA designated on the neighbouring parcel to the east (totalling approximately 1,900 m²/20,451 ft²). Both are contiguous with the Shoreline and Intertidal ESAs associated with the Fraser River to the north, which form a 'hub' in the Ecological Network Management Strategy.

An environmental inventory and assessment report was submitted by Aquaterra Environmental Ltd. (July, 2019). The environmental inventory, completed in the winter of 2018 and spring of 2019, found the site to be primarily disturbed and generally flat with no defining geological or topographical features. No watercourses were found on site, although a dry ditch was observed immediately north of the site within the City road dedication, and a Riparian Management Area (RMA) protected watercourse was observed to the west across Savage Road. The Fraser River is located less than 50 m north of the site.

Within the small portion of on-site Shoreline ESA, vegetation was found to consist of riparian vegetation, including: mature black cottonwood, red alder, red-osier dogwood and paper birch trees.

The areas classified as Upland Forest, both the northern and the central ESA areas, were found to be degraded habitat with established invasive species throughout. The northern ESA, which is proposed to be protected, consists of non-native Norway maple, as well as native Western red cedar, black cottonwood, lodgepole pine, Western red pine and red alder, with an understory impacted by invasive species and dominated by Himalayan blackberry. Invasive species cover was found to be approximately 60%. The trees were found to be generally intact and providing cover and habitat for terrestrial species such as birds and small mammals.

The central ESA, which is proposed to be removed, consists of 15 conifer trees, including lodgepole pine, Western red cedar and Western red pine. The understory consists of large cleared areas with invasive Himalayan blackberry and cherry laurel. Invasive species cover was found to be approximately 50%. The central ESA was found to have little habitat value as a result of its small size and isolation from other habitat areas, marginal understory cover and anthropogenic disturbance from being situated within a parking lot.

Limited bird activity was observed during the field assessments; direct observations were limited to Northwestern crow, with one inactive crow's nest observed within a row of off-site trees to the west. One bald eagle site was observed approximately 300 m east of the site along the Fraser River. According to Aquaterra, site redevelopment is not anticipated to impact bald eagles or their nesting success.

No mammals, amphibians, reptiles or invertebrates were directly observed.

Tree Inventory

The applicant has submitted a Certified Arborist's report which identifies on-site and off-site tree species, assesses tree structure and condition, and provides recommendations for tree retention and removal relative to the proposed development. The report assesses 54 bylaw-sized trees on the subject property, 4 trees on the neighbouring property, and 5 trees on City property. (Attachment 4).

Tree Removal

30 on-site trees are proposed to be removed, including 15 trees from the central ESA area and 15 trees located on-site but outside the ESA. The City's Tree Preservation Coordinator has reviewed the arborist report and has the following comments:

- 1 tree (tag# 704), a 48 cm Norway maple, exhibits a significant crack in the main trunk and is now a high hazard. This tree should be removed as soon as possible.
- 4 trees (tag# 728, 729, 730 and 731), all Norway maples ranging from 20 25 cm, are in poor condition (sparse canopy) and conflict with the proposed development. Remove and replace.
- 15 trees (tag# 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724 and 725) located in the central ESA are in good condition but conflict with the proposed development. Remove and replace.
 - o 6 are lodgepole pines ranging from 30 60 cm (#711, 719, 720, 721, 724 and 725);

o 8 are Western redcedars, ranging from 40 – 50 cm (#712, 713, 714, 715, 716, 717, 722 and 723); and

- 5 -

- 1 is a 25 cm Western red pine (#718).
- 10 trees (tag# 701, 702, 703, 705, 706, 707, 708, 709, 726 and 727), all Norway maples in good condition, ranging from 30 48 cm, conflict with the proposed development. Design alternatives were assessed to protect tree tag #701, 702, 703, 705, 706, 707, 708, and 709, however, insufficient area is available to accommodate trees as well as the required parking and drive aisle. The applicant has committed to replacing trees closer to the western property line. Tree tag #726 and 727 conflict with the proposed building footprint.
- Replacement trees should be provided at a 2:1 ratio as per the OCP.
- If required replacement trees cannot be accommodated on-site, a cash-in-lieu contribution in the amount of \$500/tree to the City's Tree Compensation Fund for off-site planting is required.

Tree Retention

24 on-site trees and 4 off-site trees are proposed to be retained and protected on site. The City's Tree Preservation Coordinator has reviewed the arborist report and has the following comments:

- 2 trees (tag # 710 and 737), are located on-site but outside the ESA. Tree tag #737 is a significant tree in good condition. These are to be retained and protected.
- 22 trees (tag # 738, 739, 740, 741, 742, 743, 744, 745,746, 749, 752,753, 754, 755, 756, 757, 758, 759, 760, 761, 762, and 763) located in the northern ESA are in good condition. These are to be retained and protected.
- 4 trees (tag # 747, 748, 450, and 751) located on the neighbouring site are to be retained and protected.
- Retained trees should be protected as per City of Richmond Tree Protection Information Bulletin Tree-03.

City Trees

5 trees (tag # 732, 733, 734, 735, 736) located on City property were assessed by Parks Arboriculture staff.

- 4 trees (tag # 732, 733, 734 and 736) are to be retained.
- 1 tree (tag # 735) is a 10 cm caliper tree that has been pruned for hydro lines and conflicts with development. Compensation of \$650 is required to remove the tree for the City to plant two new trees at or near the development site.

Tree Protection

The applicant is to submit a tree management plan showing the trees to be retained and the measures taken to protect them during development stage (Attachment 4). To ensure that the

trees identified for retention are protected at the development stage, the applicant is required to complete the following items:

- Prior to approval of the Development Permit, the applicant is required to submit a tree security of \$10,000 for the four City trees to be protected.
- Prior to issuance of the Development Permit, the applicant is to register legal agreements on title to ensure protection and retention of the modified ESA, including protection of trees be retained on-site (tag # 710, 737, 738, 739, 740, 741, 742, 743, 744, 745,746, 749, 752,753, 754, 755, 756, 757, 758, 759, 760, 761, 762, and 763) and submit landscape security for the restoration works
- Prior to issuance of the Development Permit, the applicant is to submit to the City a
 contract with a Certified Arborist for the supervision of all works conducted within or in
 close proximity to tree protection zones. The contract must include the scope of work
 required, the number of proposed monitoring inspections at specified stages of
 construction, any special measures required to ensure tree protection, and a provision for
 the arborist to submit a post-construction impact assessment to the City for review.
- Prior to any works on the subject site, the applicant is to ensure installation of tree
 protection fencing around all trees to be retained. Tree protection fencing must be
 installed to City standard in accordance with the City's Tree Protection Information
 Bulletin Tree-03 prior to any works being conducted on-site, and remain in place until
 construction and landscaping on-site is completed.

Tree Replacement

The applicant wishes to remove 30 on-site trees (tag #701, 702, 703, 704, 705, 706, 707, 708, 709, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730 and 731). The 2:1 replacement ratio would require a total of 60 replacement trees. The applicant has proposed to plant 26 trees in the proposed development. The required replacement trees are to be of the following minimum sizes, based on the size of the trees being removed as per Tree Protection Bylaw No. 8057.

Table 1: Tree Replacement Calculation

No. of Replacement Trees	Minimum Caliper of Deciduous Replacement Tree	Minimum Height of Coniferous Replacement Tree
2	8 cm	4 m
14	9 cm	5 m
8	10 cm	5.5 m
2	11 cm	6 m

To satisfy the 2:1 replacement ratio established in the OCP, the applicant will contribute a total of \$17,000 to the City's Tree Compensation Fund for the remaining thirty-four trees that cannot

be accommodated on the subject property after redevelopment. An additional \$650 is required in compensation for one City tree to be removed.

As part of the Development Permit application, the applicant must provide a Landscape Plan prepared by a registered Landscape Architect, which must include the agreed upon replacement trees. The City will collect a Landscape Security prior to issuance of the Development Permit based on the cost estimate for the works, including a 10% contingency, provided by the Landscape Architect.

Proposed Environmentally Sensitive Area Compensation

To compensate for removal of 198 m² of ESA, the applicant proposes to add 414 m² (4,456 ft²) of new ESA, and complete landscape restoration and enhancement as follows (DP Plans 1, 2, 3, 4.a, 4.b and 5):

- removal of Himalayan blackberry and other invasive plant species within the existing northern ESA to be protected (approximately 788 m²/8,482 ft² of the site) and within the new ESA to be created, Attachment 5;
- expansion of the northern ESA by 305 m² (93,283 ft²) and enhancing both the new and existing ESA at the north of the site (totalling 1,093 m²/11,765 ft²). Proposed plant species include:
 - o 4 large western redcedar trees (5.0 5.5 m in height);
 - o 10 large Douglas fir trees (5.5 6.0 m in height);
 - o 345 native shrubs including 54 salal, 67 Oregon grape, 47 baldhip rose, 55 oceanspray, 58 salmonberry, 64 common snowberry plants; and
 - 1059 perennial plants, including 120 vanilla leaf, 160 pacific bleeding heart, 214 sword fern, 284 small flowered alumroot, 80 large leaved lupine, and 201 pink fawn lily.

Plant density is proposed to be 1.3 plants/m² in addition to the existing trees to be retained.

- designation, enhancement and protection of 109 m² (1,173 ft²) of non-contiguous ESA with native plant species, including:
 - o 6 large western redcedar trees (5.0 m in height);
 - o 5 large Douglas fir trees (5.0 m in height);
 - o 87 native shrubs including 42 salal, 35 Oregon grape, 4 baldhip rose, 2 salmonberry, 4 common snowberry plants.

Plant density is proposed to be 0.9 plants/m².

Table 2: Balance Sheet

ESA Area	ESA Existing	ESA Loss	ESA Gain	FINAL ESA
Northern ESA	788 m ² (8482 ft ²)	0	305 m ² (3,283 ft ²)	1,093 m ² (11,765ft ²)
Central ESA	198 m ² (2,135 ft ²)	198 m ² (2,135 ft ²)	0	0
New ESA along Savage Road	0	0	109 m ² (1,177 ft ²)	109 m ² (1,177 ft ²)
TOTAL	986 m ² (10,613 ft ²)	198 m ² (2,135 ft ²)	414 m ² (4,456 ft ²)	1,202 m ² (12,938 ft ²)

The proposal represents a net gain of 216 m² (2,325 ft²) in habitat area (ratio of 2:1), with a net gain in function by augmenting the upland forest with a new densely planted, natural area to be protected as ESA. Enhancement will support utilization by a variety of terrestrial species, including small and medium-sized mammals, birds and invertebrates. Improvements are anticipated to improve foraging potential, cover, nesting, and direct and indirect utilization by wildlife as a home range for resident and migratory species.

To ensure that the proposed enhancements have the best chance of survival and that invasive species are controlled, monitoring and annual reporting by a Qualified Environmental Professional will occur for three years following completion of the landscape restoration plan.

Development Permit Considerations include bonding for the landscape restoration costs and success monitoring, installation of temporary tree and ESA protective fencing, and the registration of legal agreements to ensure protection and retention of the modified ESA (Attachment 6).

An existing covenant (BP 245419), associated with a previously issued Development Permit (DP 99-170971) and registered over the existing, northern ESA for the protection of the native vegetation, is to be discharged as a condition of this Development Permit. The new legal agreement, noted above, will reflect updated conditions, including the proposed modified ESA boundary and enhancements.

Engineering Comments

A Servicing Agreement will not be required for this development. Utility connections and frontage improvements will be addressed through a Work Order at the time of Building Permit, including completing new water and stormwater connections. At the time of future installation of any private utilities, all above-ground utility boxes (transformers, kiosk, etc) required to service the development will be situated within the development site. Utility alignments and connections must be approved by Engineering.

Registration of a new 13 m Statutory Right of Way for access, construction and maintenance of future road, dike and utility works is a consideration of the Development Permit. The dyke SRW will overlap with the ESA protective covenant. The covenant will prohibit any excavation or construction within the SRW and provide the City with unrestricted vehicular and man access to all areas of the SRW. Any future impacts to ESA as a result of the ultimate dyke cross section will be addressed at that time.

An existing flood plain covenant (BP 245434), associated with a previously issued Development Permit (DP 99-170971), is to be discharged as a condition of this Development Permit. A new flood protection covenant agreement reflecting current City standards is a condition of this Development Permit.

Financial Impact

The application results in an insignificant Operational Budget Impact (OBI) for off-site City infrastructure (such as road works, waterworks, storm sewers, sanitary sewers, street lights, street trees and traffic signals).

Conclusion

The applicant proposes to remove a total of 198m² (2,325 ft²) from the Environmentally Sensitive Area (ESA) to allow development of a warehouse and associated parking, loading and office. Compensation is proposed through a combination of additional ESA designation on-site, planting of 414 m² of newly established ESA area with native trees, shrubs and plants, and invasive species management and replanting of 788 m² (8,482 ft²) of existing ESA. The total net gain in area would be 216 m² (2,325 ft²) with a total of 1,202 m² (12,938 ft²) of enhanced ESA (new and existing).

As the proposed landscape restoration plan would result in a net gain in ESA area and function, staff recommend that the Development Permit be endorsed, and issuance by Council be recommended.

Jeanette Elmore

Gleone

Planner 2

JE:cas

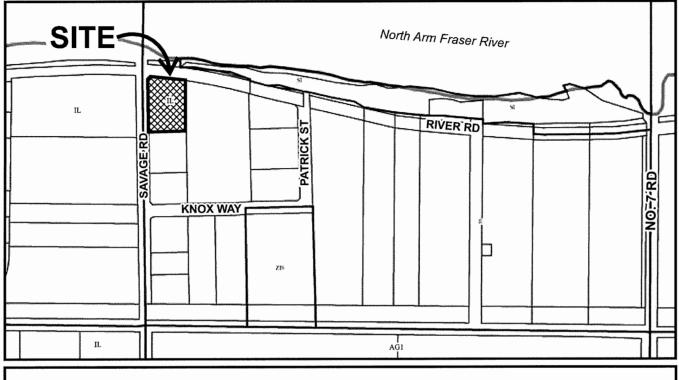
Attachments:

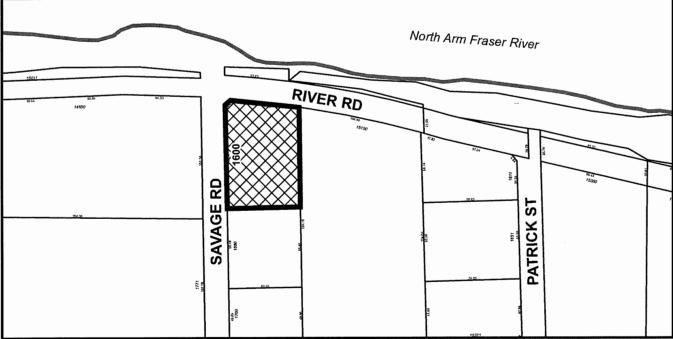
Attachment 1: Location Map Attachment 2: Data Sheet

Attachment 3: ESA Context Plan Attachment 4: Tree Management Plan

Attachment 5: Location of Invasive Plant Species Attachment 6: Development Permit Considerations









DP 18-820689

Original Date: 05/22/18

Revision Date: 05/23/18

Note: Dimensions are in METRES



Development Application Data Sheet

Development Applications Department

DP 18-820689 Attachment 2

Address: 1600 Savage Road

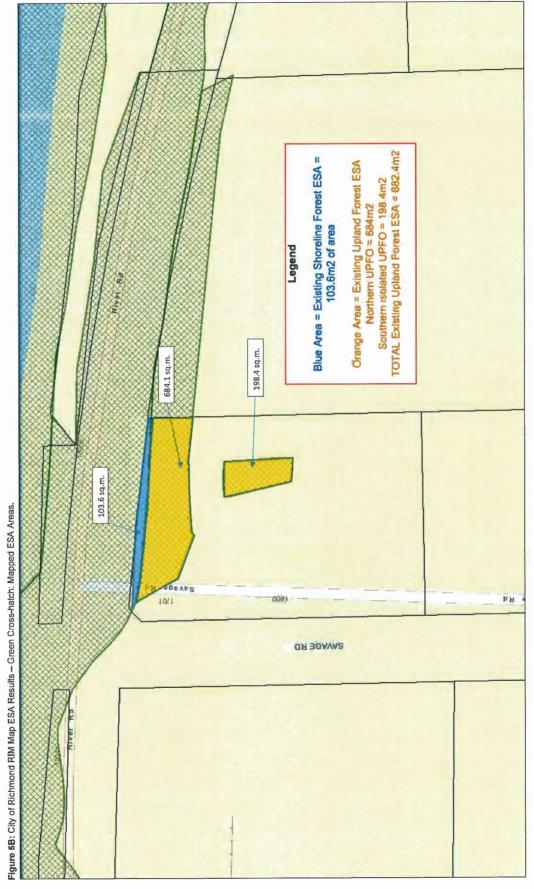
Applicant: Integrated Construction Owner: 10647462 Canada Ltd.

Planning Area(s): Bridgeport

Floor Area: Gross: 2,918m² Net: 2,918 m²

	Existing	Proposed
Site Area:	5,257 m ²	5,257 m ²
Land Uses:	Surface parking lot	Warehouse
OCP Designation:	Industrial	No change
Zoning:	Light Industrial (IL)	No change

	Bylaw Requirement	Proposed	Variance
Floor Area Ratio:	Max. 1.0	0.55	none permitted
Lot Coverage:	Máx. 60%	42%	none
Setback – Front Yard:	Min. 3.0 m	Min. 3.0 m	none
Setback – Exterior Side Yard:	Min. 3.0 m	Min. 3.0 m	none
Setback – Interior Side Yard:	No minimum	0.3 m	none
Setback – Rear Yard:	No minimum	0.32 m	none
Height (m):	Max. 12.0 m	Max. 11.12	none
Off-Street Parking Spaces:	Min. 30	30	none
Off-Street Parking Spaces (accessible):	Min. 1	1	none
Total Off-Street Parking Spaces:	Min. 31	31	none
Loading Spaces:	Min: 1 large/1 Medium	2 Large/2 medium	none
Bicycle Parking Spaces:	Class 1: 8 spaces Class 2: 8 spaces	Class 1: 8 spaces Class 2: 8 spaces	none



Environmental Impact Assessment 1600 Savage Road, Richmond

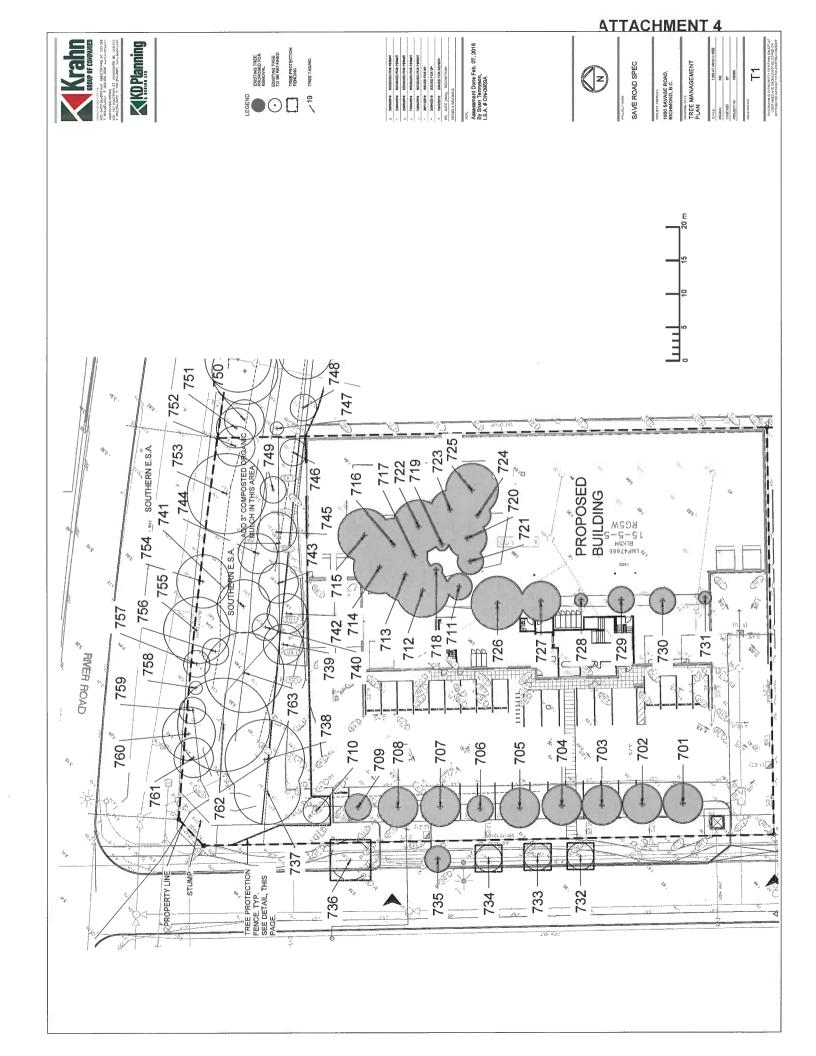


TABLE 1. TREE INVENTORY - SAVAGE ROAD PROPERTY

*The tree health and structural condition ratings are as follows and are based on factors that could include one or a combination of:

Poor Condition - Severe Canopy dieback, significant lean, decayed, missing leader, significant disease or parasitic plant presence

Fair Condition – Moderate Canopy dieback and/or lean, limb defects, multiple stems, moderate foliage damage from stress, moderate damage from disease or parasite.

Good condition - Healthy vigorous growth, no or minor visible defects or damage

	BOTANICAL	COMMON	DBU (am)	CANOPY	CTEMC	CONDITIONS	COMMENTS	RECOMMENDATION
TAG#	NAME	NAME	DBH (cm)	RAD. (m)	STEMS	CONDITION	Pruned	
701	Acer platanoides	Norway Maple	39	3	1	Good-Fair		Remove for Development
702	Acer platanoides	Norway Maple	34	3	1	Good	Pruned, slight lean	Remove for Development
703	Acer platanoides	Norway Maple	48	3	1	Good	Pruned, slight lean	Remove for Development
704	A con platancides	Nanyay Mania	40	_	١.,	Door	Crook in tour by name of	Remove for
704	Acer platanoides	Norway Maple	48	3	1	Poor	Crack in trunk, pruned	Condn/Development
705	Acer platanoides	Norway Maple	38	3	1	Fair	Pruned, dieback	Remove for Development
706	Acer platanoides	Norway Maple	35	2	11	Fair	Pruned, dieback	Remove for Development
707	A cor platanaides	Nanyou Manla	49	3	1	Fair	Pruned, dieback, has birds	Damaira fan Dairalannant
707	Acer platanoides	Norway Maple	49	3		Fair	nest Pruned, dieback, corrected	Remove for Development
708	Acer platanoides	Norway Maple	44	3	1	Fair	lean, broken branches	Romava for Davalanment
700	Acer platarioldes	Norway Maple	44	- 3		ган	Pruned, dieback on one side,	Remove for Development
709	Acer platanoides	Norway Maple	37	2	1	Fair	uncorrected lean	Remove for Development
709	Acer platarioldes	INOIWay Maple	3@ 25, 1@		<u> </u>	Fall	Pruned, dieback, growing into	Remove for Development
710	Acer platanoides	Norway Maple	15	2	4	Fair	tree wire and rebar	Retain and Protect
710	Pinus contorta	Lodgepole Pine	40	2	1	Good-Fair	Shaded dieback one side	Remove for Development
712	Thuja plicata	Western Red Cedar	45	4	1	Good	Shaded dieback one side	Remove for Development
712	Thuja plicata Thuja plicata	Western Red Cedar	45	4	1	Good		Remove for Development
714	Thuja plicata	Western Red Cedar	50	4	1	Good	Minor shaded dieback	Remove for Development
715	Thuja plicata	Western Red Cedar	50	4	1	Good	Willor Straded dieback	Remove for Development
716	Thuja plicata Thuja plicata	Western Red Cedar	45	4	1	Good	Shaded dieback	Remove for Development
717	Thuja plicata Thuja plicata	Western Red Cedar	40	2	1	Good	Shaded dieback	Remove for Development
717	Pinus resinosa	Western Red Pine	25	1	1		Shadad diabask	
/ 10	Pinus resinosa	vvestern Red Pine	25	<u> </u>	1	Poor	Shaded dieback Shaded dieback, corrected	Remove for Development Remove for
719	Pinus contorta	I adaptale Dine	35	1		Door	llean	Condn/Development
719	Finus contorta	Lodgepole Pine	33	1	1	Poor	lean	
720	Pinus contorta	Ladaanala Dina	45	3		Fair-Poor	Shaded dieback	Remove for Condn/Development
120	Pinus contorta	Lodgepole Pine	45	3	1	Fall-Poor	Leader missing, dieback,	Condit/Development
721	Pinus contorta	Lodgopolo Dino	30	2	1	Poor	leaning	Persona for Douglanment
721		Lodgepole Pine Western Red Cedar	52	4	1	Good	Shaded dieback	Remove for Development Remove for Development
122	Thuja plicata	vestern Red Cedar	52			Good	Some canopy dieback, fruiting	Remove for Development
							bodies, holes in trunk indicate	
							insect infestation, likely internal	Remove for
723	Thuja plicata	Western Red Cedar	40	3	1	Poor	decay	Condn/Development
120	Thaja pheata	VVCStCIII IXed Cedai	70			1 001	Shaded dieback, one stem	Conditibevelopment
724	Pinus contorta	Lodgepole Pine	60	2	1	Fair	removed, corrected lean	Remove for Development
727	i indo contorta	Lougepoie i ilie				Tan	Temoved, conceted lean	Tremove for Development
725	Pinus contorta	Lodgepole Pine	55	4	1	Good-Fair	Shade dieback, corrected lean	Remove for Development
726	Acer platanoides	Norway Maple	40	4	1	Good	Pruned	Remove for Development
727	Acer platanoides	Norway Maple	30	3	1	Fair	Pruned, Dieback	Remove for Development
728	Acer platanoides	Norway Maple	25	1	1	Fair	Pruned	Remove for Development
729	Acer platanoides	Norway Maple	25	2	1	Fair	Dieback, Leaning	Remove for Development
120	, too, piatamorado	Troinay mapie				, an	Dioback, Loaining	Tromove for Development
							Missing leader, broken limbs,	Remove for
730	Acer platanoides	Norway Maple	25	2	1	Poor	dieback, large trunk cavity	Condn/Development
		, , , , , , , , , , , , , , , , , , ,					Broken limbs, dieback, heavily	Remove for
731	Acer platanoides	Norway Maple	20	1	1	Poor	pruned	Condn/Development
		I mapro					Leaders all pruned due to	отпатирования по
732	Acer freemanii	Freeman's Maple	10	2	1	Good-Fair	hydro lines	Retain and Protect
, , , ,	7.1001.110011101111	T. T. G. T. G. T. G.				00047411	Leaders all pruned due to	Treasuration of the second
733	Acer freemanii	Freeman's Maple	10	2	1	Good-Fair	hydro lines	Retain and Protect
					-		Leaders all pruned due to	
734	Acer freemanii	Freeman's Maple	10	2	1	Good-Fair	hydro lines	Retain and Protect
							Leaders all pruned due to	
735	Acer freemanii	Freeman's Maple	10	2	1	Good-Fair	hydro lines	Remove for Development
							Leaders all pruned due to	
736	Acer freemanii	Freeman's Maple	17	3	1	Good-Fair	hydro lines	Retain and Protect
737	Acer species	Maple	40	5	1	Good	Pruned on one side	Retain and Protect
738	Acer platanoides	Norway Maple	45	6	1	Good		Retain and Protect
739	Pseudotsuga menziesii	Douglas fir	50	3	1	Good	Shaded dieback	Retain and Protect
740	Pseudotsuga menziesii	Douglas fir	45	2	1	Fair-Poor	Significant dieback	Retain and Protect
	Pseudotsuga menziesii	Douglas fir	30	4	1	Fair	Shaded dieback, slight lean	Retain and Protect
741								

TREE OR	BOTANICAL	COMMON		CANOPY				
TAG#	NAME	NAME	DBH (cm)	RAD. (m)	STEMS	CONDITION*	COMMENTS	RECOMMENDATION
743	Pseudotsuga menziesii	Douglas fir	50	3	1	Good-Fair	Shaded dieback on one side	Retain and Protect
744	Pseudotsuga menziesii	Douglas fir	60	3	1	Good-Fair	Dieback, one sided growth	Retain and Protect
745	Pseudotsuga menziesii	Douglas fir	60	3	1	Good-Fair	Dieback, one sided growth	Retain and Protect
746	Populus trichocarpa	Black Cottonwood	75	2	1	Fair	Ivy on trunk	Retain and Protect
747	Populus trichocarpa	Black Cottonwood	70	1	1	Poor	Ivy on trunk	Retain and Protect
748	Pseudotsuga menziesii	Douglas fir	70	2	1	Good-Fair	lvy on trunk, some dieback	Retain and Protect
749	Populus trichocarpa	Black Cottonwood	75	2	1	Fair	Shaded dieback	Retain and Protect
750	Alnus rubra	Red Alder	50	3	1	Good-Fair	Ivy on trunk	Retain and Protect
751	Alnus rubra	Red Alder	1 Broken, 1@ 45, 1@ 40	3	3	Good-Fair	Shaded dieback, ivy on trunk	Retain and Protect
752	Alnus rubra	Red Alder	1@ 10, 1@ 15, 1@ 20, 1@ 35	3	4	Good-Fair	Shaded dieback, ivy on trunk	Retain and Protect
753	Alnus rubra	Red Alder	60	6	1	Good		Retain and Protect
754	Acer macrophyllum	Big Leaf Maple	45	4	1	Good	Dieback	Retain and Protect
755	Acer macrophyllum	Big Leaf Maple	70	5	1	Good-Fair	Dieback	Retain and Protect
756	Alnus rubra	Red Alder	20.5	2	1	Good		Retain and Protect
757	Alnus rubra	Red Alder	22	2	1	Poor	Missing leader	Retain and Protect
758	Alnus rubra	Red Alder	20.5	1	1	Good-Fair	Dieback	Retain and Protect
759	Alnus rubra	Red Alder	1@ 22, 1@ 15	2	2	Good-Fair	Corrected lean	Retain and Protect
760	Alnus rubra	Red Alder	41	4	1	Good	Shaded dieback	Retain and Protect
761	Populus trichocarpa	Black Cottonwood	22	2	1	Good		Retain and Protect
762	Acer platanoides	Norway Maple	55	7	1	Good		Retain and Protect
763	Acer platanoides	Norway Maple	50	6	1	Good-Fair	Shaded Dieback, Pruned	Retain and Protect

120 ft

30

Ambulance Stations Police Stations

Street Names

Air Parcels

Strata

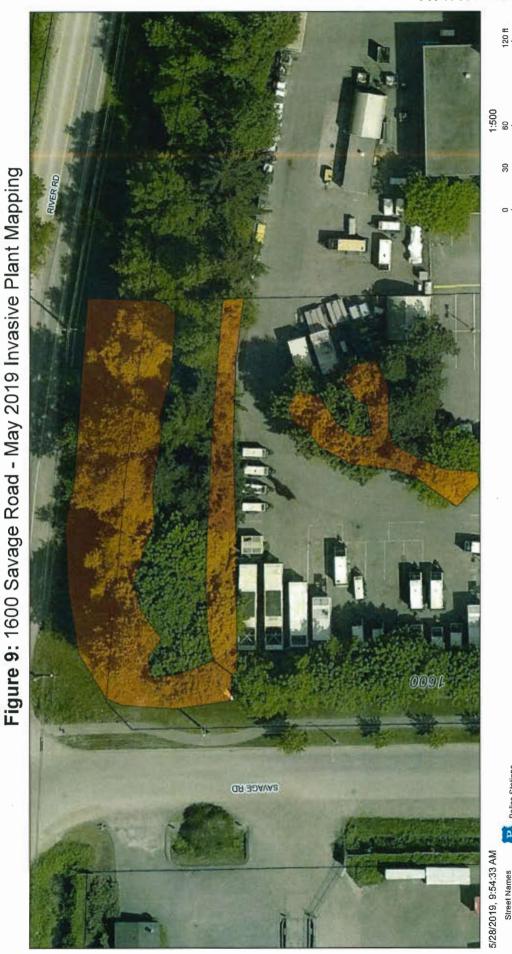
Parcels (black line)

□□□**(目 !!**

Fire Stations

City Hall

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community





Development Permit Considerations

Development Applications Department 6911 No. 3 Road, Richmond, BC V6Y 2C1

Address: 1600 Savage Road File No.: DP 18-820689

Prior to approval of the Development Permit, the developer is required to complete the following:

- Receipt of a Letter of Credit for landscaping and tree retention security in the amount of \$36,247.20 based on the cost estimate provided in the Environmental Impact Assessment (Aquaterra Environmental, July 30, 2019) including 10% contingency.
- 2. City acceptance of the developer's offer to voluntarily contribute \$17,650 to the City's Tree Compensation Fund for the planting of replacement trees within the City.
- 3. Submission of a Contract entered into between the applicant and a Certified Arborist for supervision of any on-site works conducted within the tree protection zone of the trees to be retained. The Contract should include the scope of work to be undertaken, including: the proposed number of site monitoring inspections, and a provision for the Arborist to submit a post-construction assessment report to the City for review.
- 4. Submission of a Tree Survival Security to the City in the amount of \$10,000 for the four City trees to be retained.
- 5. Installation of appropriate tree protection fencing around all trees to be retained as part of the development prior to any construction activities, including building demolition, occurring on-site.
- 6. Installation of appropriate Environmentally Sensitive Area (ESA) protection fencing and silt control fencing at the boundary of the ESA as proposed by the Development Permit, per the ESA Changes Plan L2.2 (August 22, 2019) prior to any construction activities, including building demolition, occurring on-site.
- 7. Submission of a Contract entered into between the applicant and a Qualified Environmental Professional to monitor and provide annual reporting to the City on the ESA for three years following City approval of substantial completion.
- 8. The granting of a 13 m wide statutory right-of-way along the northern property line for the purpose of access, construction, and maintenance of future road, dike, and utility works by the City. The SRW shall prohibit any excavation or construction within the SRW and provide the City with unrestricted vehicular and man access to all sections of the SRW.
- 9. Registration of a flood plain covenant on title identifying a minimum habitable elevation of 3.0 m GSC.
- 10. Registration of a legal agreement on title to identify the modified ESA and to ensure that landscaping is retained and planted as identified within the Environmental Impact Assessment (Aquaterra Environmental, July 30, 2019) and will not be abandoned or removed.
- 11. Registration of a legal agreement on title to allow City access to the property in case the works identified within the Environmental Impact Assessment (Aquaterra Environmental, July 30, 2019) are not completed, maintained or monitored as proposed.
- 12. Discharge of Covanant BP245419.
- 13. Discharge of Covenant BP245434.

Prior to Building Permit Issuance, the developer must complete the following requirements:

- Submission of a Construction Parking and Traffic Management Plan to the Transportation Department. Management
 Plan shall include location for parking for services, deliveries, workers, loading, application for any lane closures, and
 proper construction traffic controls as per Traffic Control Manual for works on Roadways (by Ministry of
 Transportation) and MMCD Traffic Regulation Section 01570.
- 2. Incorporation of accessibility measures in Building Permit (BP) plans as determined via the Rezoning and/or Development Permit processes.
- 3. Complete works to be done at the developer's sole cost via City Work Order:
 - Water Works:

Initial:	

- a) Using the OCP Model, there is 424 L/s of water available at a 20 psi residual at the Savage Road frontage. Based on your proposed development, your site requires a minimum fire flow of 250 L/s.
- b) The Developer is required to:
 - i) Submit Fire Underwriter Survey (FUS) or International Organization for Standardization (ISO) fire flow calculations to confirm development has adequate fire flow for onsite fire protection. Calculations must be signed and sealed by a Professional Engineer and be based on Building Permit Stage building designs.
 - ii) Provide a right-of-way for the water meter. Minimum right-of-way dimensions to be the size of the meter box (from the City of Richmond supplementary specifications) + any appurtenances (for example, the bypass on W2o-SD) + 0.5 m on all sides. Exact right-of-way dimensions to be finalized during the building permit process.
 - iii) Install a water meter on the existing water service connection. Water meter to be located onsite in a right-of-way.

• Storm Sewer Works:

- a) The Developer is required to:
 - Confirm the capacity and condition (via video inspection) of the existing storm connection near the south property line. If the existing storm connection is adequate to serve the proposed development, at the City's digression, the existing connection may be retained to serve the proposed development. A new inspection chamber will be required. If the existing storm connection is not adequate to serve the proposed development, the existing connection shall be capped and a new storm connection complete with inspection chamber shall be installed by the City at the developer's cost.

•Sanitary Sewer Works

- a) The Developer is required to:
 - i) Confirm the capacity and condition (via video inspection) of the existing sanitary connection at the south property line. If the existing connection is adequate to serve the proposed development, at the City's digression, the existing connection may be retained to serve the proposed development. If the existing connection is not adequate to serve the proposed development, the existing connection shall be replaced by the City at the developer's cost.
- b) At Developer's cost, the City is to:
 - i) Replace the sanitary inspection chamber at the south property line with a 1050 mm manhole.

•Frontage Works

- a) The Developer is required to:
 - i) Coordinate with BC Hydro, Telus and other private communication service providers:
 - (1) To pre-duct for future hydro, telephone and cable utilities on all road frontages.
 - (2) Before relocating/modifying any of the existing power poles and/or guy wires within the property frontages.
 - (3) To underground overhead service lines.
 - (4) To locate/relocate all above ground utility cabinets and kiosks required to service the proposed development, and all above ground utility cabinets and kiosks located along the development's frontages, within the developments site (see list below for examples). A functional plan showing conceptual locations for such infrastructure shall be included in the development design review process. Please coordinate with the respective private utility companies and the project's lighting and traffic signal consultants to confirm the requirements (e.g., statutory right-of-way dimensions) and the locations for the aboveground structures. If a private utility company does not require an aboveground structure, that company shall confirm this via a letter to be submitted to the City. The following are examples of statutory right-of-ways that shall be shown on the architectural plans/functional plan:
 - BC Hydro PMT 4.0 x 5.0 m
 - BC Hydro LPT 3.5 x 3.5 m
 - Street light kiosk 1.5 x 1.5 m
 - Traffic signal kiosk 2.0 x 1.5 m
 - Traffic signal UPS 1.0 x 1.0 m

Initial	:

- Shaw cable kiosk 1.0 x 1.0 m
- Telus FDH cabinet 1.1 x 1.0 m
- 4. If applicable, payment of latecomer agreement charges associated with eligible latecomer works.
- 5. Obtain a Building Permit (BP) for any construction hoarding. If construction hoarding is required to temporarily occupy a public street, the air space above a public street, or any part thereof, additional City approvals and associated fees may be required as part of the Building Permit. For additional information, contact the Building Approvals Department at 604-276-4285.

T Y . 4	
Note:	4

- * This requires a separate application.
- Where the Director of Development deems appropriate, the preceding agreements are to be drawn not only as personal covenants of the property owner but also as covenants pursuant to Section 219 of the Land Title Act.
 - All agreements to be registered in the Land Title Office shall have priority over all such liens, charges and encumbrances as is considered advisable by the Director of Development. All agreements to be registered in the Land Title Office shall, unless the Director of Development determines otherwise, be fully registered in the Land Title Office prior to enactment of the appropriate bylaw.
 - The preceding agreements shall provide security to the City including indemnities, warranties, equitable/rent charges, letters of credit and withholding permits, as deemed necessary or advisable by the Director of Development. All agreements shall be in a form and content satisfactory to the Director of Development.
- Additional legal agreements, as determined via the subject development's Servicing Agreement(s) and/or Development Permit(s), and/or Building Permit(s) to the satisfaction of the Director of Engineering may be required including, but not limited to, site investigation, testing, monitoring, site preparation, de-watering, drilling, underpinning, anchoring, shoring, piling, pre-loading, ground densification or other activities that may result in settlement, displacement, subsidence, damage or nuisance to City and private utility infrastructure.
- Applicants for all City Permits are required to comply at all times with the conditions of the Provincial Wildlife Act and Federal Migratory Birds Convention Act, which contains prohibitions on the removal or disturbance of both birds and their nests. Issuance of Municipal permits does not give an individual authority to contravene these legislations. The City of Richmond recommends that where significant trees or vegetation exists on site, the services of a Qualified Environmental Professional (QEP) be secured to perform a survey and ensure that development activities are in compliance with all relevant legislation.

Signed	Date	_



Development Permit

No. DP 18-820689

To the Holder: Braden Smith

Property Address: 1600 Savage Road

Address: 4610 Marine Drive

Burnaby, BC V5J 3G2

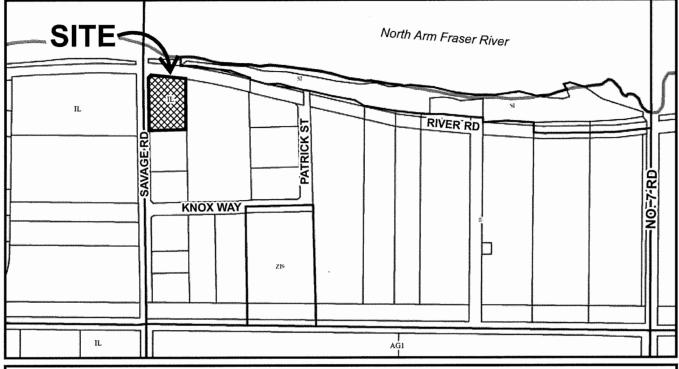
1. This Development Permit is issued subject to compliance with all of the Bylaws of the City applicable thereto, except as specifically varied or supplemented by this Permit.

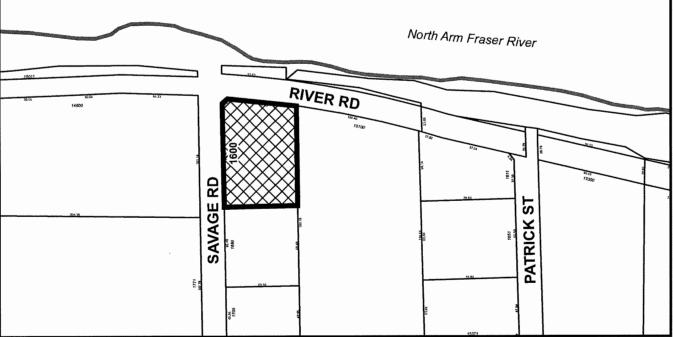
- 2. This Development Permit applies to and only to those lands shown cross-hatched on the attached Schedule "A" and any and all buildings, structures and other development thereon.
- 3. Subject to Section 692 of the Local Government Act, R.S.B.C.: buildings and structures; off-street parking and loading facilities; roads and parking areas; and landscaping and screening shall be constructed generally in accordance with Plans #1, 2, 3, 4.a., 4.b, and 5, attached hereto.
- 4. Sanitary sewers, water, drainage, highways, street lighting, underground wiring, and sidewalks, shall be provided as required.
- 5. As a condition of the issuance of this Permit, the City is holding the security in the amount of \$36,247.20 to ensure that development is carried out in accordance with the terms and conditions of this Permit. Should any interest be earned upon the security, it shall accrue to the Holder if the security is returned. The condition of the posting of the security is that should the Holder fail to carry out the development hereby authorized, according to the terms and conditions of this Permit within the time provided, the City may use the security to carry out the work by its servants, agents or contractors, and any surplus shall be paid over to the Holder. Should the Holder carry out the development permitted by this permit within the time set out herein, the security shall be returned to the Holder. The City may retain the security for up to one year after inspection of the completed landscaping in order to ensure that plant material has survived.
- 6. If the Holder does not commence the construction permitted by this Permit within 24 months of the date of this Permit, this Permit shall lapse and the security shall be returned in full.

Development Permit No. DP 18-820689

To the Holder:	Braden Smith
Property Address:	1600 Savage Road
Address:	4610 Marine Drive Burnaby, BC V5J 3G2
	be developed generally in accordance with the terms and Permit and any plans and specifications attached to this Permit
This Permit is not a Building Per	mit.
AUTHORIZING RESOLUTION NO OF	O. ISSUED BY THE COUNCIL THE DAY
DELIVERED THIS DAY OF	, .
MAYOR	_









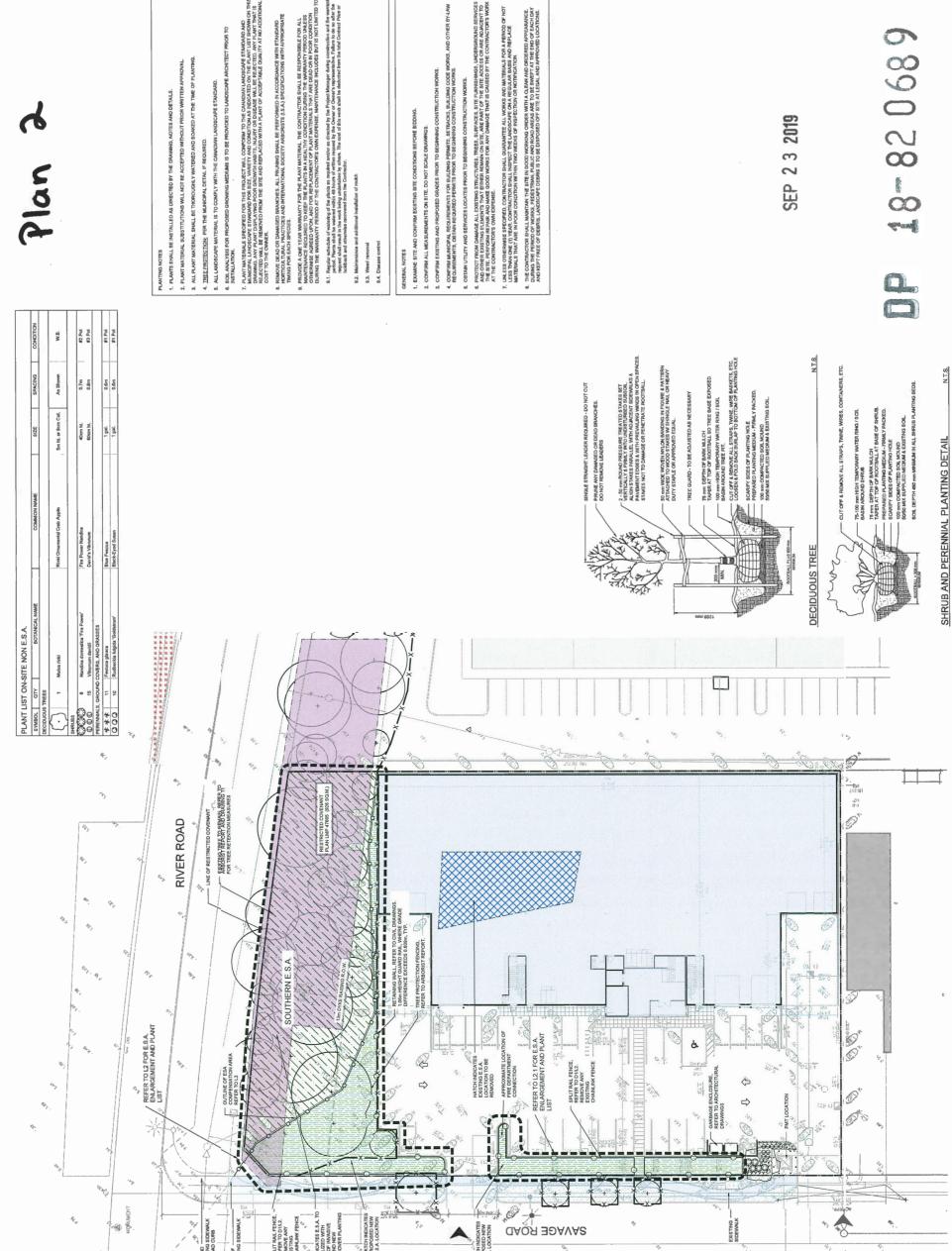
DP 18-820689 SCHEDULE "A"

Original Date: 05/22/18

Revision Date: 05/23/18

Note: Dimensions are in METRES

TREE PROTECTION FENCING EXISTING TREE TO REMAIN X KD Planning SPLIT RAIL FENCE L2.2 THIS DRAWING IS PROPERTY OF KRAHIN COMPANES AND SHOULD NOT BE DO DISTINBUTED WITHOUT PRIOR WINTER TURF GRASS OPEN WINDOWS 1600 SAVAGE ROAD RICHMOND, BC E.S.A. CHANGES B.C.S.L.A. #565 LEGEND + 18-820689 Plan SEP 2 3 2019 a86.0m2 10,613.4 SQ.FT. PROPOSING REVIVAL OF EXISTING E.S.A. ENVIRONMENTAL SENSITIVE AREA (E.S.A.) - existing E.S.A. RO BE REMOVED - existing GREEN BELT LEGEND: TOTAL TOTAL A.S.S.A. 787.67 SQ.M (8,478.4 SQ. FT.) ENVIRONMENTAL SENSITIVE AREA 305 SQ.M (3283 SQ. FT 198.34 SQ.M (2,135 SQ. FT.) SPLIT RAIL FENCE REFER TO LANDSCAPE DRAWING -- SPLIT RAIL FENCE REFER TO LANDSCAPE DRAWING 109 SQ.M (1177 SQ. FT.) PROPOSING SHARING ACCESS BETWEEN PROPERTIES PROPERTY LINE A O A SVAVGE



Plan 2



Krahn GROUP OF COMPANIES





VANCOUVER OFFICE
210 - 1311 KOOTENAY ST VANCOUVER, BC V5K 4Y3
1; 604,284,5662 F; 604,384,5658 www.khalm.com

X KO Planning

- , PLANTS SHALL BE INSTALLED AS DIRECTED BY THE DRAWING, NOTES AND DETAILS
- 4. TREE PROTECTION: PER THE MUNICIPAL DETAIL IF REQUIRED.

CONCRETE SIDEWALK PAVING

TURF GRASS

LEGEND

EXISTING TREE TO REMAIN

+

- PLANT MATERIALS SERCIPED FOR THIS PROJECT WILL CONFORM TO THE CANADIAN LANDSCAPE STANDARD AND THE MANAGAL LANDSCAPE STANDARD FOR STANDARD OF THE STANDARD OF T

EXISTING TREE TO BE REMO

TREE PROTECTION FENCING

SPLIT RAIL FENCE

- REMONE DEAD OR DAMAGED BRANCHES, ALL PRIJAING SYALL BE PERFORMED IN ACCREDANCE WITH STANDARD HOPFICIALLITALL PRACTIONS AND INTERNATIONAL SOCIETY ARBONISTS (1,5,4), SPECIFICATIONS WITH APPROPRIATE THINGS PER LACKS SPECIES.
- PROVICE A CHE YEAR WARRANTY FOR THE PLANT MATERIAL, THE CONTRACTOR SHALL BE RESPONSBILE FOR ALL THE CHARLANCE REQUISED TO YEED THE PLANTS BA HEALTHY CONDITION DURING THE WIRRANCE PRESIDO VILESS OTHERWAS AGREED 1999, AND FOR REPLACEBRY OF PLANT MATERIALS THAT REE DESCORE TO REPORT CONDITION DURING THE WARRANTY PERGOS AT THE CONTRACTOR'S OWN EXPENSE, MANTENANCE INCLUDES BUT IS NOT LIMITED TO:

- 3. CONFIRM EXISTING AND PROPOSED GRADES PRIOR TO BEGINNING CONSTRUCTION WORKS 2. CONFIRM ALL MEASUREMENTS ON SITE, DO NOT SCALE DR

8 08/04/2019 ISSUED FOR REVIEW

- CONFIRM MUNICIPAL REQUIREMENTS FOR BUILDING PERMITS, SETBACKS, BUILDING CODE WORKS. REQUIREMENTS, OBTAIN REQUIRED PERMITS PRIOR TO BEGINNING CONSTRUCTION WORKS.
- PROTECT FROM DAMAGE ALL EXSTING STRUCTURES, TREES, SUFFACES, STIF FLANISHINGS, UNDERGROUND SERVICES AND OTHER EXISTING ELEMENTS THAT SETHER RELAMINON SITE, ARE PART OF THE SITE ACCESS OF ARE ADJACENT TO THE SITE PRESIDENT REPURA AND MARE GOOD WORKS FOR ANY DAMAGE THAT IS CAUSED BY THE CONTRACTOR'S WORK THE CONTRACTOR'S WORK.
 - 7. UNE ESS OTHERWASE SPECIFIED, CONTRACTOR SHALL GUARANTEE ALL WORKS AND MATERIALS FOR A PERIOD OF NOT LESS THAN ONE (1) TRACE CONTRACTORS SHALL INSPECT THE AUGSOURF ON IN REGULAR LIBRIS AND REPLACE MATERIALS THAT HERE IN POOR CONDITION WITHIN TWO WEEKS OF INSPECTIVE OR NOTHER/THOST IN THE CONTRACTOR SHALL MARTAIN THE SITE IN GOOD WORKING ORDER WITH A CLEAN AND ORDERED APPEARANCE. DURMAN THE PERSON OF WARKS, PEDEFRANK, BALL AND MOUND AREAS, AFT OF DE SWETT THE BLOND OF EACH DAY WAN EXPERTED FOR THE THE SHALL CHANNES, THE SHALL OF THE SHALL CHANNES, THE SHALL OF THE SHALL WAN APPROVED LOCATIONS.

B.C.S.L.A. #565

4 16/11/2018 ISSUED FOR REVIEW 3 09/11/2018 ISSUED FOR REVIEW

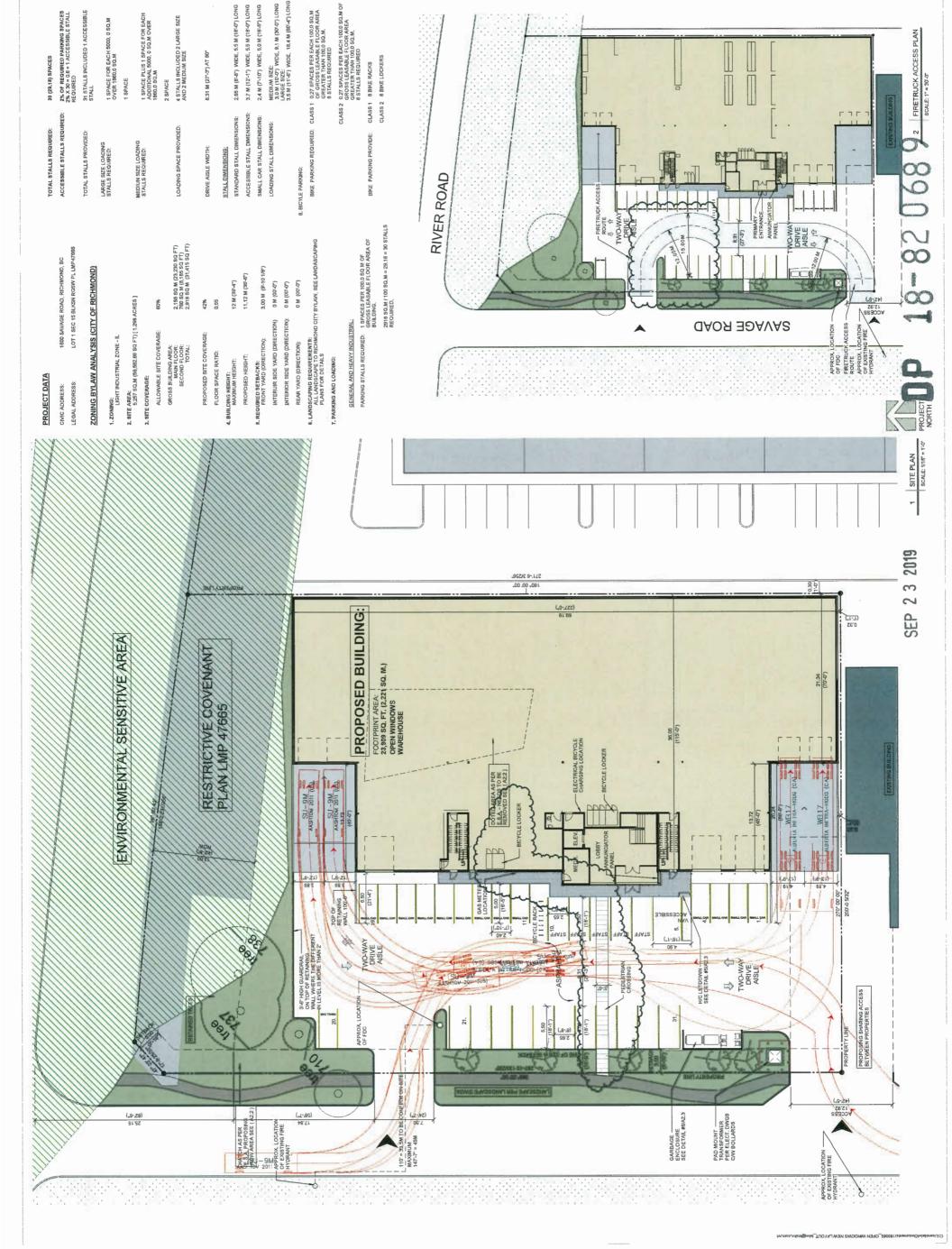


OPEN WINDOWS

1600 SAVAGE ROAD RICHMOND, BC

LANDSCAPE PLAN, NOTES, AND DETAILS

HIS CRAMING IS PROPERTY OF KRAHN GROUP O COARDANIES AND SHOULD NOT BE COPIED OR DISTRIBLITED WITHOUT PRIOR WRITTEN CONSEN'



Integrated

Plan 3

EDMONTON OFFICE 1000-1011 JASPERAVENLE EDMONTON AB. 75J1WB 7 780,758,2002 WWW,KRA-RUCOM SBOTSFORD OFFICE 00-MOT GLADTS AVENUE ABBOTSFORD B.C., Y28 604,853,8631,1560, WWW.KRAANLCOM

VANCOUVER DEFICE 110-2820 VIRTUAL WAY VANCOUVER B.C. YSM 0CA 1: 504.286.5952 F. 504.236.5955 WWW.KRAHIN.COM

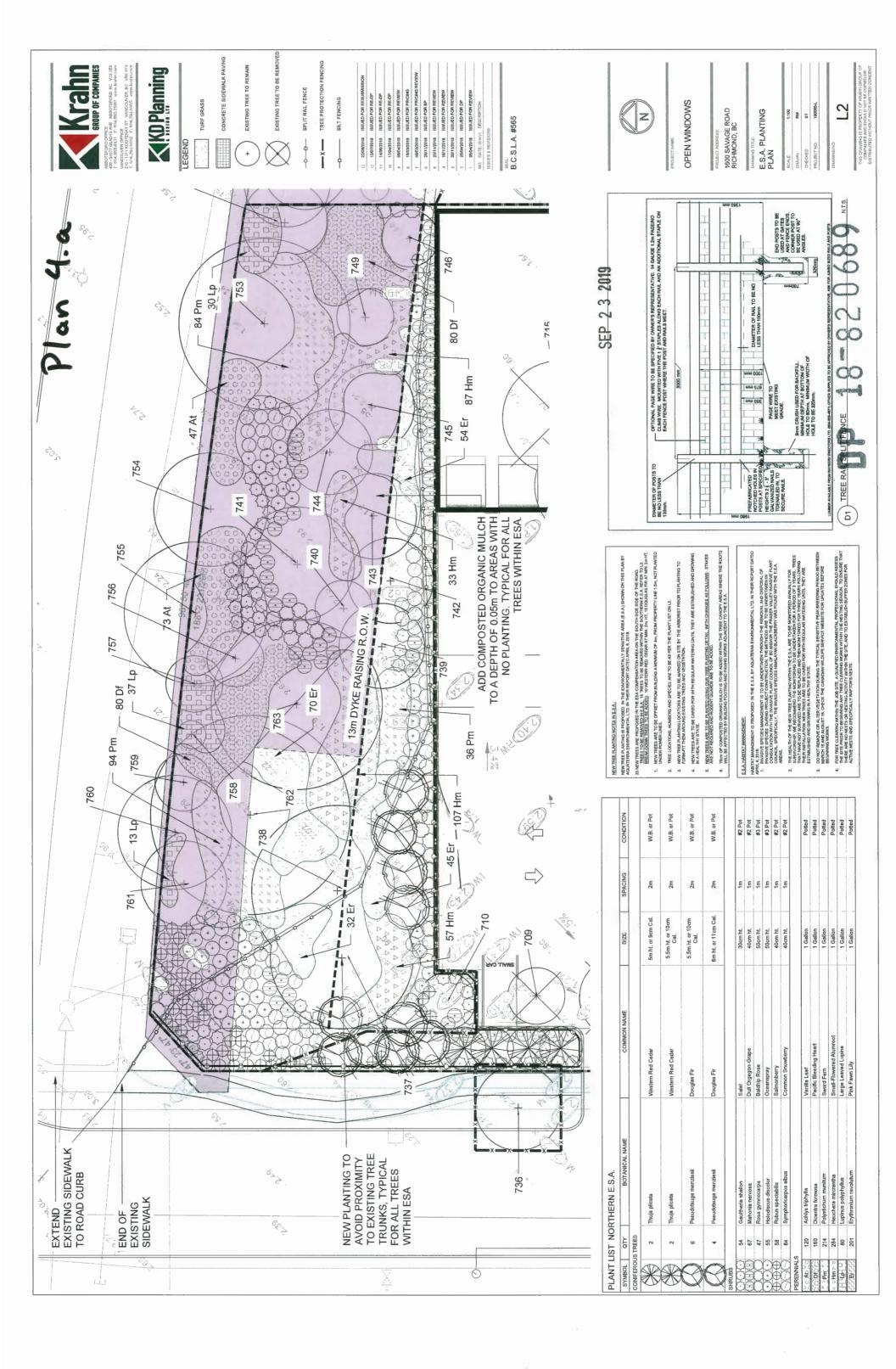
larry podhoral architecture inc

OPEN WINDOWS

1600 SAVAGE ROAD, RICHMOND BC

SITE PLANS

A2.1





Krahn

GROUP OF COMPANIES

VANCOLVER OFFICE 210 - 1311 KOOTENAY ST VANCOLVER, BC VSK 4Y3 T; SNA_284.5662 F; SNA_294.5655 www.humin.com

X KO Planning



APPROXIMATE LOCATION OF FIRE DEPARTMENT CONNECTION

- 25 NEW TREES ARE PROPOSED IN THE ESA COMPOSATION AREA ON THE SOUTH SIDE OF THE ROAD.
 THEEST DIE READAGEDIRE EA, I FRIEST DIE REPROVED WITHIN THE SOUTHEAN EAS AR FREFEN DIE READAGEDIRE AFF. I FREE STORE THE PROFOSED MINIMA. THE SOUTHOUS THE SOUTHOUS THE TANIMA' AT HIT SECONDANT TEEST DIE LAGRED. 10 WESTENNED CENSK AT MAN, AM HT, 1500/GALS FIT ST MAN, AM HT. NEW TREES ARE TO BE OFFSET FROM BUILDING A MINIMUM OF 4m, FROM PROPERTY LINE 1.5m, NOT PLANT UNDER POWER LINES.
- 2. TREE LOCATIONS, NUMBERS AND SPECIES ARE TO BE AS PER THE PLANT LIST ON L2.
- NEW THEE PLANTING LOCATIONS ARE TO BE MARKED ON SITE BY THE ARBORIST PRIOR TO PLANTING TO POWN-FIT THEM AROUND EXISTING TREES AND VEGETATION. NEW TREES ARE TO BE CARED FOR WITH REGULAR WATERING UNTIL THEY ARE ESTABLISHED AND GRO IN A MEALTHY STATE.

CONCRETE SIDEWALK PAVING

TURF GRASS

LEGEND

EXISTING TREE TO REMAIN

+

EXISTING TREE TO BE REMOV

TREE PROTECTION FENCING

SILT FENCING

SPLIT RAIL FENCE

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- NEWTREES ARE TO BE PLANTED USING OUR TREE PLANTING DETAIL, WITH CHANGES AS FOLLONS: STAKES ARE NOT RECURED AND RODENT GLARGS ARE TO BE ADDED.
- 75cm OF COMPOSTED ORGANIC MULCH IS TO BE ADDED WITHIN THE TREE CANORY AREAS WHERE THE RODTS WILL BE AFFECTED BY BUILDING FOOTING AND PAYING WORKS ADJACENT TO THE E.S.A.

E.S.A. HABITAT MANAGEMENT:

SAVK JE ROAD

30.

- HABITY MANAGEMENT IS PROPOSED. IN THE E.S.A. BY ACLATERAR ENVIRONMENTAL LTD. IN THEIR REPORT DA. APRILA 2015. IN THEIR REPORT DA. APRILA 2015. IN WARRES SPECIES MANAGEMENTS IS DES UNCERTAVEN THE PROMOTH THE REMOVAL APPOISSYSORY. OF INVARIANGE SPECIES LOWING PROSECT CONTRACTION THE MEMORES ARE LINGUISTAKEN IN COUNCELL THOUGH THE INVARIANCE APPOISSORY. HE FRAMEN VALLE PROMOTIVE THE INVARIANCE SPECIES HIMMALY WE BLOCKERS HIMMALY WE STANDARD WITH THE E.S.A. AREBS.
 - THE HEALTH OF THE KEWITREE PLANTING WITHIN THE E.S.A. JAE TO BE MONTORED ANNALLY FOR SURVAINESS. THE SESSION OF STREAKEN FOR A FORTWARD THE ANNAL THE SEND THE SESSION OF STREAKEN FOR A FORTWARD THE WAS INTERESTANCED AND THE WAS ANNAL THE WAS AN THE SESSION OF STREAKEN FOR THE FORSE THE SESSION OF SESSION OF SESSION OF THE SESSION OF SESSIO
 - DO NOT REMOVE OR ALTER VEGETATION DURING THE TYPICAL SEWSITIVE PEAK BREEDING PERIOD BETWEEN MACH IS AND AMOUST. 16, CAFCOK THE CANDIAN WILDLIFE SERVICE WEBSITS FOR UPDATES BETCREE BEGINNIN CHANGAS.

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705

SPLIT RAIL FENCE, REFER TO D1/L2. REMOVE ANY EXISTING CHAINLINK FENCE

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	SYMBOL QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	CONDITION
CONIFERO	CONIFEROUS TREES					
X	6	Thuja plicata	Western Red Cedar	5m M. or 8cm Cal.	2m	W.B. or Pol
0	מו	Pseudotsuga menziesii	Douglas Fir	5m ht. or 9cm Cal.	2m	W.B. or Pol
SHRUBS						
	42	Gaultheria shalfon	Salal	30cm M.	1m	#2 Pol
	8	Mahonia nervosa	Dull Orgegon-Grape	40cm ht.	Ē	#2 Pol
C	4	Rosa gymnocarpa		50cm ht.	ημ	#3 Pol
	2	Rubus speciabilis	Salmonbarry		Ē	#2 Pol
		Symphoricarpos albus	Common Snowberry	40cm ht.	EL.	#2 Pot

Зъ.

704

OS ;

732

90.

733



SEAL: B.C.S.L.A. #565

| CARBAGE ENCLOSURE, REFER TO ARCHITECTURAL DRAWINGS

٠٥.

10.

EXISTING -SIDEWALK

3.7%

95.

TREE PROTECTION — FENCING, REFER TO ARBORIST REPORT

OPEN WINDOWS

1600 SAVAGE ROAD RICHMOND, BC

E.S.A. PLANTING PLAN

L2.1

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18-820689

