

Development Permit Panel

Council Chambers, City Hall 6911 No. 3 Road Wednesday, July 13, 2016 3:30 p.m.

Minutes

Motion to adopt the minutes of the Development Permit Panel meeting held on June 29, 2016.

1. Development Permit 11-566011

(REDMS No. 4880630 v. 10)

APPLICANT: Ecowaste Industries Ltd.

PROPERTY LOCATION: 15111 Williams Road and Richmond Key 1095

Director's Recommendations

That a Development Permit be issued which would:

- 1. Permit the construction of a 65.22 ha (161.14 acres) Industrial Logistics Park at 15111 Williams Road and Richmond Key 1095 on a site zoned "Industrial (I)" that is adjacent to the Agricultural Land Reserve and several Environmental Sensitive Areas, and
- 2. Vary the provisions of Richmond Zoning Bylaw 8500 to:
 - (a) Increase the maximum building height from 12.0 m to 13.0 m and that the building height is to be measured from the finished foundation slab and further to apply the Geological Survey of Canada (GSC) datum shown on the phase block plan attached as "Schedule B" as the maximum elevation limits for the tallest point on each building, and

п	п	_	ΝЛ	
П		_	IV /I	
ш			11/1	

(b) Reduce the minimum number of parking spaces required to 0.56 spaces per 100 m2 of gross leasable floor area for those portions of the building used for freight forwarding services or warehouse storage services.

2. Development Permit 16-727168

(REDMS No. 5007440 v. 2)

APPLICANT: Pritam Samra

PROPERTY LOCATION: 7311 No. 5 Road

Director's Recommendations

That a Development Permit be issued which would permit the construction of a single-family dwelling with a detached garage on a site with an Environmentally Sensitive Area designation at 7311 No. 5 Road, on a site zoned Agriculture (AG1).

- 3. New Business
- 4. Date of Next Meeting: July 27, 2016
- 5. Adjournment





Time:

3:30 p.m.

Place:

Council Chambers

Richmond City Hall

Present:

Joe Erceg, Chair

John Irving, Director, Engineering Victor Wei, Director, Transportation

The meeting was called to order at 3:30 p.m.

Minutes

It was moved and seconded

That the minutes of the meeting of the Development Permit Panel held on June 15, 2016, be adopted.

CARRIED

1. Development Permit 15-703204

(File Ref. No.: DP 15-703204) (REDMS No. 5020234)

APPLICANT:

Matthew Cheng Architect Inc.

PROPERTY LOCATION:

7751 Heather Street

INTENT OF PERMIT:

- 1. Permit the construction of five (5) townhouses at 7751 Heather Street on a site zoned "High Density Townhouses (RTH2)"; and
- 2. Vary the provisions of Richmond Zoning Bylaw 8500 to:
 - (a) Allow one (1) of the required resident vehicle parking spaces to be a small parking space.

Applicant's Comments

Matthew Cheng, Matthew Cheng Architect Inc., provided background information on the proposed development and highlighted the following:

- the proposed 5-unit townhouse development is located on a residual site;
- the architectural form and character of the proposed development complement the surrounding townhouse developments;
- the proposed single vehicle access point to the site is from Turnill Street;
- the applicant is providing a cash-in-lieu contribution for Affordable Housing in keeping with the rezoning requirements;
- eight resident bicycle parking spaces and a bicycle rack for two visitor bicycles are proposed;
- outdoor amenity space is proposed to be located in the north portion of the site;
- a convertible unit and aging-in-place features for townhouse units are provided; and
- the townhouse units are designed to achieve an EnerGuide 82 rating.

Denitsa Dimitrova, PMG Landscape Architects, briefed the Panel on the main landscaping features of the proposed development and noted the following:

- each townhouse unit is provided with a private yard, small patio and shade tree;
- the streetscape is enhanced by a low transparent aluminum fence;
- a six-foot wood fence along the south and west property lines provides privacy to neighbours;
- each townhouse unit is separated by a fence;
- the outdoor amenity space includes a small play area for younger children, a bicycle rack, a bench and mailbox kiosk; and
- permeable paving is introduced at the driveway entrance adjacent to the outdoor amenity space and at the visitor surface parking stall.

Panel Discussion

In response to a query from the Panel, Mr. Cheng confirmed that the proposed small parking space in the garage of the southwest unit, which is subject to a variance request, is larger than a small car parking space, but approximately a foot short of the required length of a standard indoor parking space.

In response to a query from the Panel, Ms. Dimitrova stated that (i) the proposed outdoor amenity space is separated from the concrete sidewalk on the north by a 42-inch tall transparent fence and planting strip and (ii) the applicant will consider the suggestion to introduce permeable pavers adjacent to the visitor parking space to provide an end treatment to the internal drive aisle.

Staff Comments

Wayne Craig, Director, Development, advised that (i) there will be off-site frontage improvements associated with the proposed development through City Work Order, and (ii) two existing boulevard trees will be relocated within the boulevard.

In response to queries from the Panel, Mr. Craig confirmed that (i) the density of the proposed development is consistent with the Zoning Bylaw and (ii) the applicant is providing a cash-in-lieu contribution to the City's Affordable Housing Reserve Fund.

Correspondence

Anonymous Residents, 28-7733 Heather St. (Schedule 1)

Mr. Craig stated that the unnamed occupants of the subject residential unit expressed concern regarding the rezoning of the subject site due to insufficiency of parking in the area.

In response to a query from the Panel, Mr. Craig confirmed that the proposed development complies with the Zoning Bylaw's parking requirement, except for the requested variance to the size of one required resident vehicle parking space.

Gallery Comments

None.

Panel Decision

It was moved and seconded

That a Development Permit be issued which would:

- 1. Permit the construction of five (5) townhouses at 7751 Heather Street on a site zoned "High Density Townhouses (RTH2)"; and
- 2. Vary the provisions of Richmond Zoning Bylaw 8500 to:
 - (a) Allow one (1) of the required resident vehicle parking spaces to be a small parking space.

CARRIED

2. Development Permit 15-716268

(File Ref. No.: 15-716268)(REDMS No. 5036252 v. 3)

APPLICANT: Oris Developments (Hamilton) Corp.

PROPERTY LOCATION: 23241, 23281 and part of 23301 Gilley Road, and part of

23060 and 23000 Westminster Highway

INTENT OF PERMIT:

- 1. Permit the construction of a 69-unit mixed use building on 23241, 23281 and part of 23301Gilley Road, and part of 23060 and 23000 Westminster Highway on a site zoned "Residential/Limited Commercial (ZMU29) Neighbourhood Village Centre (Hamilton)"; and
- 2. Vary the provisions of Richmond Zoning Bylaw 8500 to relax the requirement for one (1) on-site, medium size loading space.

Applicant's Comments

Dana Westermark, Oris Consulting Ltd., provided background information on Oris' Parcels 2 and 3 project, noting that (i) three affordable housing units will be provided in lieu of the affordable housing cash contributions for both Parcels 2 and 3, (ii) a geo-exchange system will be introduced for heating, cooling and recirculation of waste energy in the two buildings in Parcels 2 and 3, (iii) the shared partially below-grade parkade for Parcels 2 and 3 will be accessed from the north side of Parcel 3 off the future New Road, (iv) the interim New Road will extend eastward and ultimately connect to Smith Crescent, and (v) Gilley Road will be raised by up to 8 feet.

Keith Hemphill, Rositch Hemphill Architects, with the aid of a visual presentation (attached to and forming part of these Minutes as <u>Schedule 2</u>), provided an overview of Parcels 2 and 3 and highlighted the following:

- raising the habitable space for the proposed development to a new floodplain level resulted in interim and future conditions and challenges in the project;
- proposed parkades for Parcels 2 and 3 are partially below-grade and will be connected;
- the loading space and fire access are temporarily located on Gilley Road but the loading space will be relocated as part of future developments;
- Gilley Road will be reconstructed to create a High Street with retail spaces facing the road;
- high quality materials will be used for the two buildings in Parcels 2 and 3 which are differentiated through the use of different colours and types of building materials;
- a 2.5-meter grade change at the corner of Gilley Road and Westminster Highway has been addressed through appropriate architectural and landscaping treatments;
- the entrance to the shared underground parkade, vehicle drop-off and pick-up area for residents and loading are proposed to be provided on the north elevation of Parcel 3 which is facing the future New Road; and
- the proposed north-south greenway at the eastern side of the subject site provides a significant pedestrian link within the project.

Doug Shearer, Hapa Collaborative, noted the main landscaping features for Parcels 2 and 3 and stated the following:

- the landscape design rationale for Parcels 2 and 3 is to revitalize the Hamilton Area and create a vibrant and accessible landscape;
- the two buildings in Parcels 2 and 3 enclose a landscaped central courtyard with shared uses for both parcels and specific uses for each parcel;
- the publicly accessible north-south greenway and the semi-private east-west pathway between the two parcels enhance pedestrian connectivity within the project;
- the proposed landscaping defines the public, semi-private and private spaces in the project;
- Parcels 2 and 3 provide opportunities for residents to gather, play and socialize;
- wide and heavily landscaped terraces provide a buffer to Westminster Highway and an attractive transition to the adjacent streetscape;
- proposed landscaping for Gilley Road High Street includes feature paving and planting of new street trees;
- the High Street Plaza at the southwest corner of Parcel 2 is a place where people could gather and socialize and connects Gilley Road to the north-south greenway;
- a variety of conditions along Westminster Highway provide diversity on the west elevation of the project;
- a secure walkway on the west side of the building in Parcel 3 is provided as an amenity for residents; and
- amenities in the south courtyard for Parcel 3 include, among others, community garden plots, garden shed, seating benches, a gazebo, and a separate private area dedicated for memory ward residents.

Panel Discussion

In response to a query from the Panel, Mr. Hemphill advised that a transparent partition will separate commercial parking from residential parking in the underground parkade.

In response to a query from the Panel, Mr. Westermark stated that in order to focus the residents' attention to the various program elements in the internal courtyard, a soft building backdrop would be appropriate, thus the red vertical columns found in other elevations need not be integrated in the building façade facing the courtyard.

In response to a query from the Panel, Mr. Westermark confirmed that a person in wheelchair coming from Westminster Highway can access the internal courtyard through the residential component in Parcel 2 and the accessible building entry in Parcel 3.

In response to a query from the Panel, Mr. Hemphill and Mr. Westermark noted that (i) the underground parkade, being a non-habitable space, has a lower floodplain level and (ii) the proposed design of the parkade will minimize damage to the parkade structure in the event of flooding.

In response to a query from the Panel, Mr. Westermark advised that (i) a future increase in the elevation of Westminster Highway will benefit the project as it will reduce the grade change between the podium level and the sidewalk, and (ii) a five-foot increase in the elevation of Westminster Highway will not adversely impact the parkade wall structure.

In response to a query from the Panel, Mr. Hemphill commented that the shadow analysis reveal that the proposed location of the community garden plots will receive adequate sun exposure.

Staff Comments

Mr. Craig noted that (i) Parcel 2 provides 41 Basic Universal Housing units, and (ii) the three variances requested for Parcel 3 are related to the proposed increase in the permitted height and projection of an architectural feature to add visual interest to the building and reduction of the south interior side yard setback for a garden shed located in close proximity to the shared property line between the two projects.

Panel Discussion

The Chair commended the applicant for the hard work done on the project and for successfully addressing the challenging condition at Westminster Highway.

Correspondence

None.

Gallery Comments

None.

Panel Decision

It was moved and seconded

That a Development Permit be issued which would:

- 1. Permit the construction of a 69-unit mixed use building on 23241, 23281 and part of 23301Gilley Road, and part of 23060 and 23000 Westminster Highway on a site zoned "Residential/Limited Commercial (ZMU29) Neighbourhood Village Centre (Hamilton)"; and
- 2. Vary the provisions of Richmond Zoning Bylaw 8500 to relax the requirement for one (1) on-site, medium size loading space.

CARRIED

3. Development Permit 15-716274

(File Ref. No.: DV 15-716274)(REDMS No. 5024605 v. 2)

APPLICANT: Oris Developments (Hamilton) Corp.

PROPERTY LOCATION: Parts of 23241 and 23281 Gilley Road, and part of 23060,

23066, 23080, and part of 23100 Westminster Highway

INTENT OF PERMIT:

- 1. Permit the construction of a 130-unit seniors housing building on parts of 23241 and 23281 Gilley Road, and part of 23060, 23066, 23080, and part of 23100 Westminster Highway on a site zoned "Low Rise Apartment (ZLR27) Neighbourhood Village Centre (Hamilton)"; and
- 2. Vary the provisions of Richmond Zoning Bylaw 8500 to:
 - (a) Increase the maximum permitted height from 17.0 m (55.77 ft.) to 17.6 m (57.77 ft.) for an architectural feature on the north elevation of the building;
 - (b) Increase the maximum permitted projection into the north setback from 0.60 m (2.0 ft.) to 1.07 m (3.5 ft.) for an architectural feature on the north elevation of the building; and
 - (c) Reduce the south interior side yard setback for a garden shed from 3.0 m (9.8 ft.) to 0.30 m (1.0 ft.).

Applicant's Comments

(See Applicant's Comments in Item 2 - Development Permit 15-716268 on pages 4-5 of these Minutes)

Panel Discussion

(See Panel Discussion in Item 2 on pages 5 and 6 of these Minutes)

Staff Comments

(See Staff Comments in Item 2 on page 6 of these Minutes)

Correspondence

None.

Gallery Comments

None.

Panel Decision

It was moved and seconded

That a Development Permit be issued which would:

- 1. Permit the construction of a 130-unit seniors housing building on parts of 23241 and 23281 Gilley Road, and part of 23060, 23066, 23080, and part of 23100 Westminster Highway on a site zoned "Low Rise Apartment (ZLR27) Neighbourhood Village Centre (Hamilton)"; and
- 2. Vary the provisions of Richmond Zoning Bylaw 8500 to:
 - (a) Increase the maximum permitted height from 17.0 m (55.77 ft.) to 17.6 m (57.77 ft.) for an architectural feature on the north elevation of the building;
 - (b) Increase the maximum permitted projection into the north setback from 0.60 m (2.0 ft.) to 1.07 m (3.5 ft.) for an architectural feature on the north elevation of the building; and
 - (c) Reduce the south interior side yard setback for a garden shed from 3.0 m (9.8 ft.) to 0.30 m (1.0 ft.).

CARRIED

- 4. Date of Next Meeting: July 13, 2016
- 5. Adjournment

It was moved and seconded That the meeting be adjourned at 4:34 p.m.

CARRIED

	Certified a true and correct copy of the
	Minutes of the meeting of the
	Development Permit Panel of the Council
	of the City of Richmond held on
	Wednesday, June 29, 2016.
Ing Cana	Protice A covin
Joe Erceg	Rustico Agawin
Chair	Auxiliary Committee Clerk

Schedule 1 to the Minutes of the Development Permit Panel meeting held on Wednesday, June 29, 2016.

To D	evelop	ment	Permi	t Panel
Date	$:= \mathcal{J}_{\mathcal{U}}$	inc	29,	2016
ltem	#	mana semanana sa pa		
Re:_	DP	/5	- 703	<u>3204</u>
in the second			omatour salaketosobolom	
A CONTRACTOR OF THE PARTY OF TH				

To: City clerk's office.

On the subject of:

7751 Heather Street

(5) Townhouse development permit panel meeting.

As the owners of unit #28 7733 Heather Street, we disagree on the subject of rezoning of 5 townhouses in area 7751 due to insufficient parking near our residence and over development of townhomes in the area.

Sincerely,

The residents of 28 - 7733 Heather Street.



Schedule 2 to the Minutes of the Development Permit Panel meeting held on Wednesday, June 29, 2016.



HAMILTON









CITYHALL-#5059787-V
HAMILTON LAND9_Panel_Presentation_for_Oris_Parcels

16_.PPTX

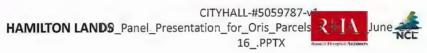
Line Land Bank Control of the Control of the

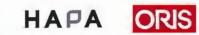














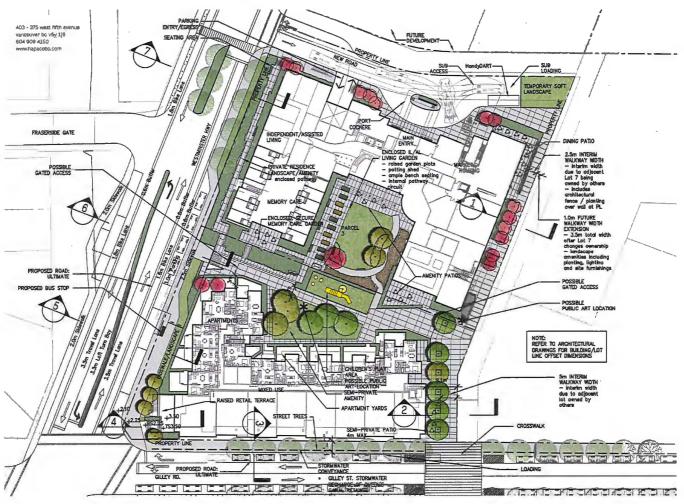












CITYHALL-#5059787-v

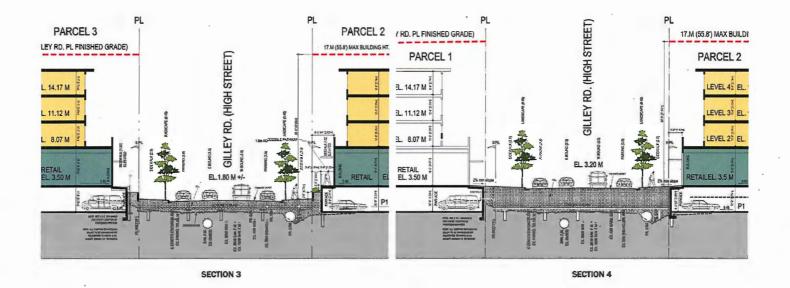
HAMILTON LANDS_Panel_Presentation_for_Oris_Parcels

16_.PPTX









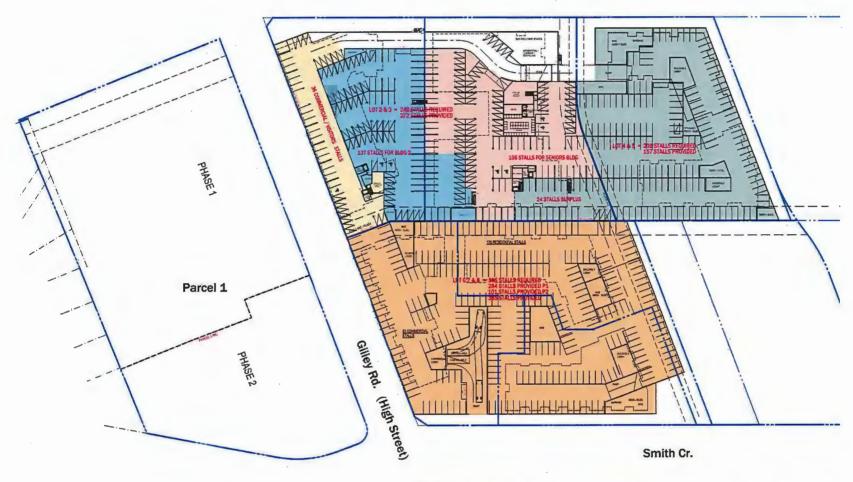












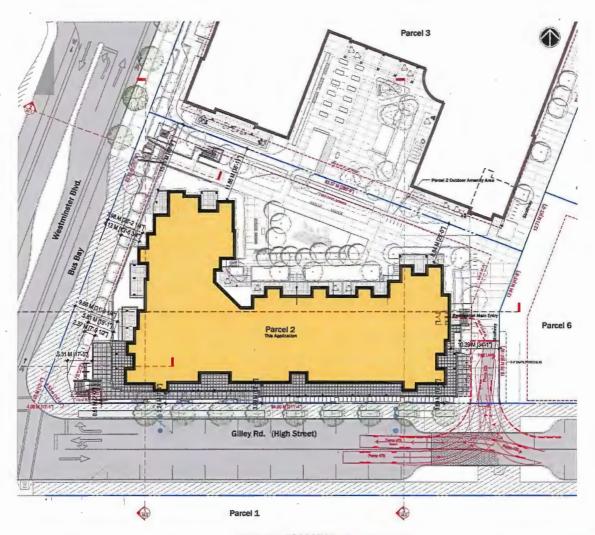
CITYHALL-#5059787-v1

HAMILTON LAND9_Rarcels
16_.PPTX









CITYHALL-#5059787-v

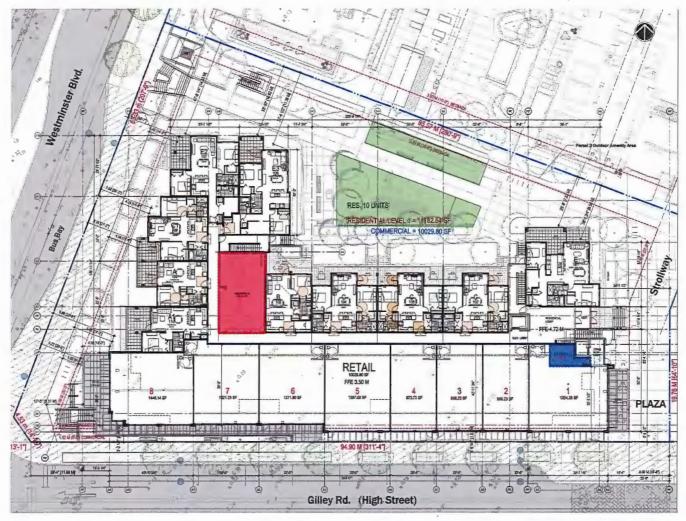
HAMILTON LANDS Parcel Presentation for Oris Parcels

16_.PPTX

Land Parcel Parc







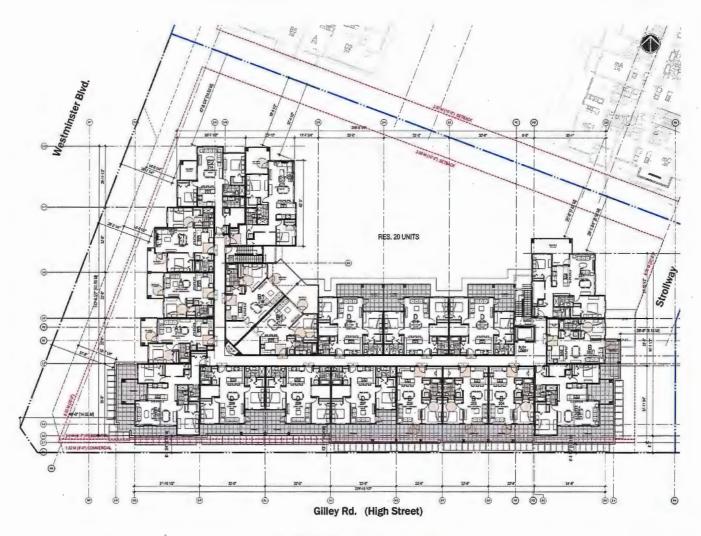
CITYHALL-#5059787-v

HAMILTON LANDS Parcel Procedure 16_.PPTX

June_29_-







CITYHALL-#5059787-v

HAMILTON LAND9_Parcel_@resentation_for_Oris_Parcels

16_.PPTX

| Reserve | Authority | Author





	FI	NISH SCHE	DULE	
-	MATERIALS		COLOUR	
ī	AUDIT FRIEDR CETTE COMMENTACE)	- in vitta	BRING HT THE ETOT CHAY	
7	CHAMBLE LEGAL STORMS & C. Princip. 45	FA .PONES	BALHO JOH CONSIDER CANOL	
_	CIMPOTO SI SOMD + J PANILLI	29 14100	WHICH TWO MED INGT	
LA.A.A	COMPRETIVES IGHER 1 PHILE	2G -resup	Beside SUB-VELPTLES BADIS	
3	HORSDAN WITH BONG - FORDWARD		KAYNA TANDALADEP	
4	BRANCHES .	-MARRIED	FEIGHT BLACK MICH CON 10W NF	
ŝ	C SHOLYCHOOT ASSOCIATED THE PROPERTY OF THE PR	-принс	MATURAL CONDEXE	
	ALM FRANC BLANCON WY BLANC PARCE PLACETS	-NORMES	E1001.0L401	
1	OBJ. GLASSI FICHE SELECT HAS ARROWS SOOK THINK	PONERCE	\$100K secilE	
7	NORD THY SHAR COURSE FACE:	-75-9400	METALINE HARDE	
,	NACINTHISSPHONOSTRATION;	-6/00	Bettin 2 Attachment	
10	INCOME CONCENTRATION PORMS	-bonta plant	March January Dres.	
11	MATURAL CONTRACTOR CURRENCE	-Studen	SIMPLE - CALCULA LANGUAGE CONTRACTOR - 1924 CROME	
12	CONTROLS SHIE NAME, & LACOTY COLLAND	- h-00	Bat-Criti condicat tons,	
13	ALM STORETRONT ANCORRANG DOORS AT EXTRY	Symmetric .	6/30/R,AGE	
н	CHAIN MENDING COMMENTS STREETING	-Londa	Medical - CETCS PRODUCT COLLECTION - 8077 TODAY	
14	WHY BENDED SCHTT	- PRETHENDS	364 CC-(7% 1549A 596/	
W	SUPPRISON AND PROCTURAL GRECORTS.	.744744449	HE IN THE COURSE OF STREET STREET, SHOULD SEE THE PROPERTY COLD	
17	UNITEDITIES	НОМИ	BLOBITICHOL	
M	LANGUICAN THICLE		ALANSTER ONLA	
19	actionally solutions	-117	COLOUR TO MATCHARCA BYING HT MANIRET CHINY	
(0)	PTHOMPS OF HANGEL PERDISA	-75296638	COLDUS TO MICHAELD	
21	METHL GLOCATOURNS	.04.0000	BACCON DANCES.	
22	ETFO, PRIME CARDET IN GLASSTWING	1/4004004(3	\$100x0LHCX	
21	EFFORES/PRECASTORADIETE & DATE	** Adigs	Battle and Developing Spirits	
24	CRU BRAINCE - BACFLT OFFILE PRANE & PRINTS.	-764/00	ffpouls.and	
34.	SCENT TOP SECURICAL SUPPLIES SCHOOLS - MURRING	PETHORS	BM HIS HIR DOWNERSY STAFF	





CITYHALL-#5059787-v

HAMILTON LAND9_Parcel_2resentation_for_Oris_Parcels

16_.PPTX

June_29_-







CITYHALL-#5059787-v

HAMILTON LANDS Parcel 2 resentation for Oris Parcels June 29 - 16 PPTX







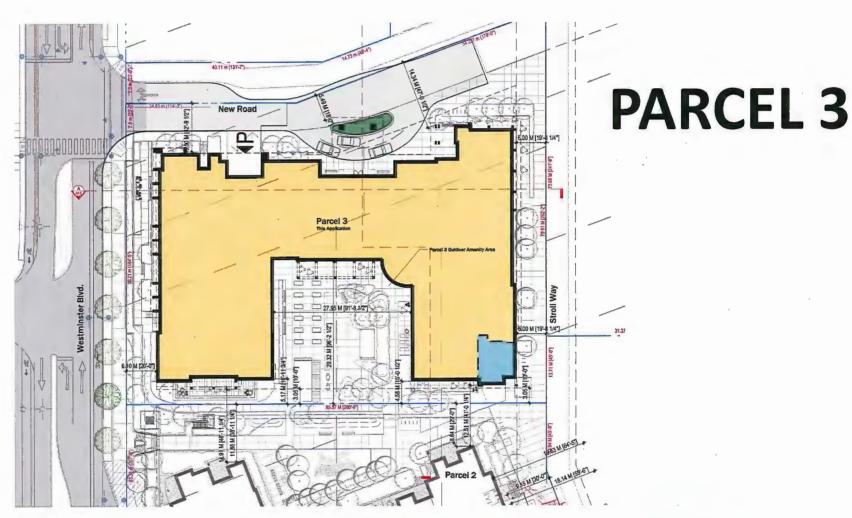
CITYHALL-#5059787-v1

HAMILTON LAND9_Parcel_@resentation_for_Oris_Parcels_June_29_
16_.PPTX

Length HAMILES.







CITYHALL-#5059787-v1

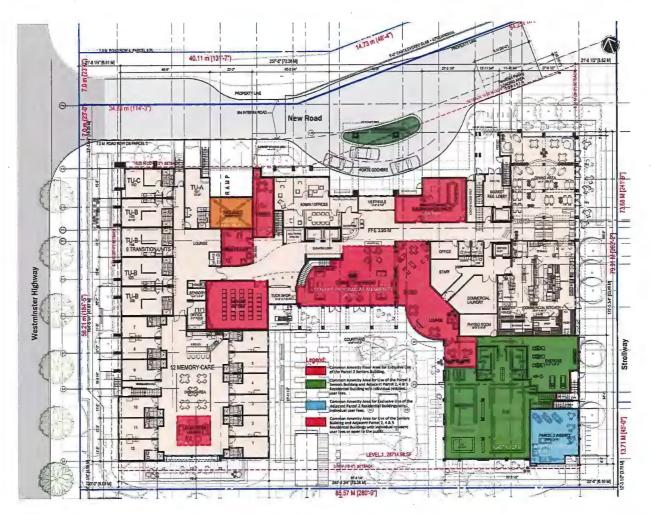
HAMILTON LANDS Parcel Bresentation_for_Oris_Parcels

16_PPTX









HAMILTON LANDS Parcel Bresentation_for_Oris_Parcels

16_PPTX

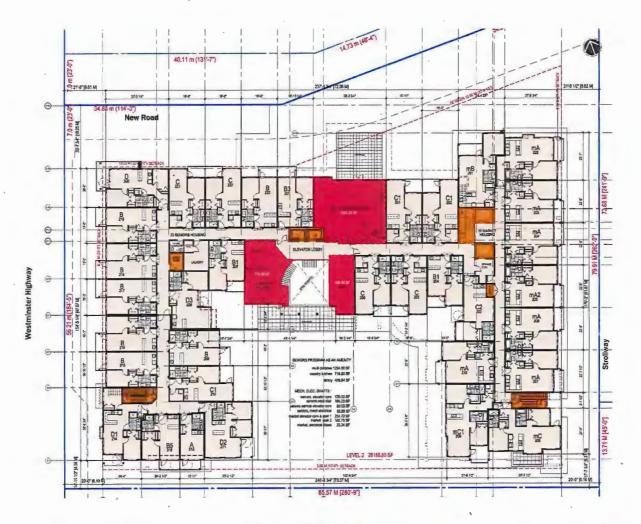
HAMILTON LANDS Parcel Bresentation_for_Oris_Parcels

16_PPTX





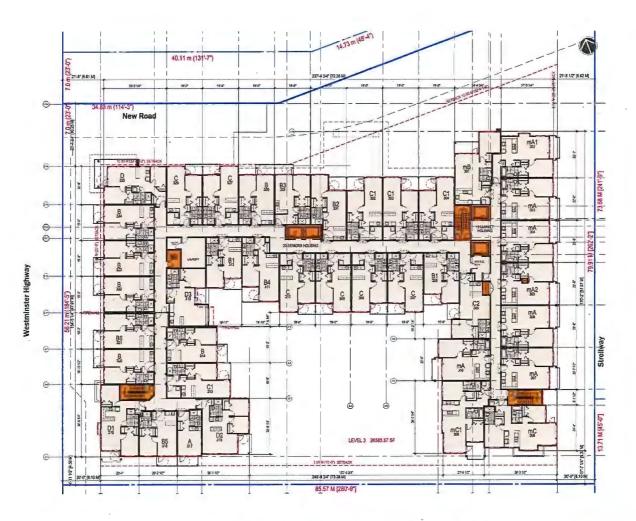


























CITYHALL-#5059787-V

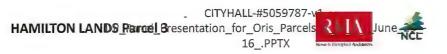
HAMILTON LANDS Parcel Bresentation_for_Oris_Parcels June NCE









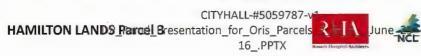


















CITYHALL-#5059787-v1HAMILTON LANDS Rarcel & 2 & 3 16_.PPTX







Landscape Rationale

Area Revitalization

As part of the revitalization of the Hamilton Lands the mixed use development on Parcel 2 and neighbouring Parcel 3 soniors' nousing facility provide improvements to pedestrian connections, high quality streetscapes and enhancements to the open space network. A hierarchy of open spaces has been introduced for both parcels that provides a rich environment of private and public landscape types. For Parcel 2 the following landscape types are proposed: boulevards, street trees and adjacent soft landscape on Westminster Highway; Gilley as a high street with ample pedestrian realm; soft landscape and connections to ground floor commercial spaces: a pockot plazz at the south end of the north-south stroll way; and a groon space with a play area connecting to the oust-west walkway between Parcel 2 and 3.

Pedestrian Connectivity

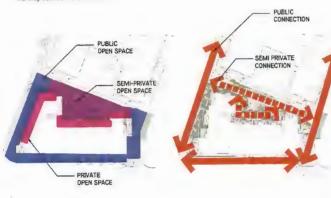
The north-south strollway on the east side of the site will improve pedestrian connectivity within the greater development as it is built out. The east-west pathway between the two parcels provides further connectivity for those living in the Parcel 2 8.3 buildings.

Defining the Edge between Public and Private

Layers of groundcovers, perennials, grasses, shrubs and evergreen climbing plants softly screen walls and fonces that define the edges botween public space and private patios on Westminster Highway. Cates located at the east and west access points delineate the transition from public space to the somi-private common outdoor amenity area. Landscape plantings further buffer residential patios facing on to the outdoor amenity area with gates marking the transition from semi-private to private patio space.

Programming, Amenities and Opportunities for Play

A cluster of Raywood Ash frees on grassed borms form an "outdoor room" in the common amenity area adjacent to the oast-wost walkway bordering the neighbouring parcel. The outdoor room features a barbecue, gathering area and a children's play area, which provide opportunities for socialization and play. Public art is proposed at key locations on Parcel 2. Bike parking has also been accommodated for residents, visitors, and commercial users.





















CITYHALL-#5059787-v1HAMILTON LANDS Parce Parce 16_.PPTX















Landscape Rationale

Area Revitalization

As part of the revitalization of the Hamilton Lands the development of the seniors' housing facility on Parcel 3 and neighbouring Parcel 2 mixed use development provide improvements to pedestrian connections, high quality streetscapes and enhancements to the open space network. A hierarchy of open spaces has been introduced for both parcels that provides a rich environment of private and public landscape types. For Parcel 3 the following landscape types are proposed: boulevards, street trees and adjacent soft landscape on Westminster Highway, a south facing, well programmed secure courtyard space; and secure perimeter walking route.

Pedestrian Connectivity

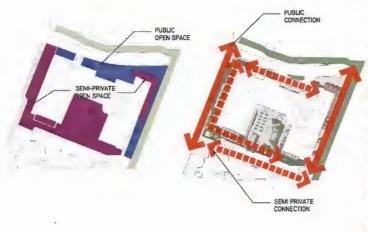
The north-south strollway on the east side of the site will improve pedestrian connectivity within the greater development as it is built out. The east-west pathway between the two parcels provides further connectivity for those living in the Parcel 2 & 3 buildings. A secure walkway on the west side of the building provides amenity for

Defining the Edge between Public and Private

Layered plantings screen walls and fonces that define the edges between public space and private space on Westminster Highway, Gates located at the north, east, west and south access points delineate the shift from public space to the internal courtyard. To the south planted berms and foncing mark the transition between the Parcel 3 courtyard and walkway to the adjacent parcel. The internal courtyard and west strollway are secure, as is the memory garden, which is separate from all the other spaces.

Programming and Opportunitles for Recreation

The well programmed secured courtyard space provides recreation, socialization and activity space for Parcel 3 residents. Urban agriculture planters and a potting shed provide residents with the facilities for gardening activities for Parcel 3 residents. The shuffle board and gazebo provide opportunities for recreation and socialization within the courtyard. The landscaped walking route extends from the courtyard and following the south and west perimeter of the building providing residents with access to recreation.





















CITYHALL-#5059787-V
HAMILTON LAND9 Parcel Bresentation_for_Oris_Parcels

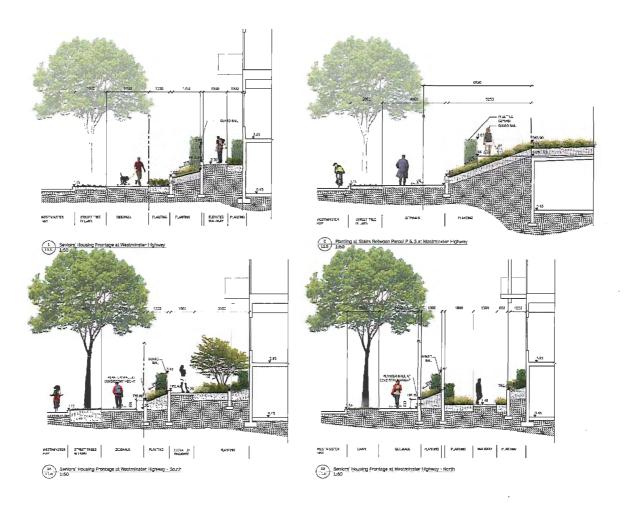
16_.PPTX

Amount for grant of the control of the cont



















CITYHALL-#5059787-v*

HAMILTON LAND9_Parcel_Bresentation_for_Oris_Parcels

16_.PPTX









HAMILTON

THANK YOU

STYHALL-#5059787-V

Panel Presentation for Oris Parcels

16_.PPTX









Report to Development Permit Panel

To:

Development Permit Panel

Date:

June 23, 2016

From:

Wayne Craig

File:

DP 11-566011

Director of Development

Re:

Application by Ecowaste Industries Ltd. for a Development Permit at

15111 Williams Road and Richmond Key 1095

Staff Recommendation

That a Development Permit be issued which would:

- 1. Permit the construction of a 65.22 ha (161.14 acres) Industrial Logistics Park at 15111 Williams Road and Richmond Key 1095 on a site zoned "Industrial (I)" that is adjacent to the Agricultural Land Reserve and several Environmental Sensitive Areas, and
- 2. Vary the provisions of Richmond Zoning Bylaw 8500 to:
 - a) Increase the maximum building height from 12.0 m to 13.0 m and that the building height is to be measured from the finished foundation slab and further to apply the Geological Survey of Canada (GSC) datum shown on the phase block plan attached as "Schedule B" as the maximum elevation limits for the tallest point on each building, and
 - b) Reduce the minimum number of parking spaces required to 0.56 spaces per 100 m² of gross leasable floor area for those portions of the building used for freight forwarding services or warehouse storage services.

Wayne Craig

Director of Development

DCB:blg

Staff Report

Origin

Ecowaste Industries Ltd. has applied to the City of Richmond for permission to develop a 65.22 ha (161.14 acres) industrial site at 15111 Williams Road and Richmond Key 1095. The subject properties are adjacent to the Agricultural Land Reserve (ALR), several Environmental Sensitive Areas (ESA) and Riparian Management Areas (RMA).

The portion of the site south of Francis Road (15111 Williams Road) is currently used primarily for sorting and processing construction waste while the portion north of Francis Road (Richmond Key 1095) contains an active construction debris landfill authorized by the Province and operated by the applicant.

The site is currently zoned "Industrial (I)" and a rezoning will not be required for the proposed industrial logistics park. The Development Permit is required because of the adjacency to the ALR and the proposed impacts to the designated ESA and RMA areas, and does not address form and character of the buildings.

The applicant is seeking variances to reduce the parking ratio specific to freight forwarding services or warehouse storage services and to increase the maximum building height as measured from the foundation slab. Both variances are discussed in more detail later in this report.

Development Information

The subject site is located south of Blundell Road and west of the No. 7 Road canal and consists of two (2) separate parcels; one (1) un addressed no-access lot to the north of Francis Road of approximately 53.35 ha (131.8 acres - Richmond Key 1095) and one (1) to the south of Francis Road with full road access of approximately 11.87 ha (29.3 acres) addressed as 15111 Williams Road. The larger site is currently used as a Ministry of Environment approved construction debris landfill, but is reaching full capacity. Ecowaste Industries is proposing to close the landfill operation in phases as each cell within the landfill reaches its capacity and develop each closed landfill phase sequentially for light uses.

Once the landfill has been closed and capped, it is anticipated that the highest finished grade on the portion of the site north of Francis Road will be approximately 19 m GSC, while the highest finished grade on the parcel south of Francis Road will be approximately 6.7 m GSC.

Ecowaste's proposal is to develop the site in five (5) phases over a period of up to 20 years; beginning with the north part of the site and working south. A conceptual plan, prepared by Ecowaste, indicates potential development of up to 13 large distribution buildings ranging in size from approximately 6,782 m² (73,000 ft²) to 46,452 m² (500,000 ft²), although the number, size and building configuration may vary depending on their client's requirements. Ecowaste's intent is to "build to suit" for their prospective tenants. Upon completion, a total of approximately 265,145 m² (2,854,000 ft²) of light industrial floor space is anticipated to be developed.

Extensive off-site upgrades and installations will be required to support the proposed development, including the construction of a new two-lane bridge over the No. 7 Road Canal providing access to the development, extension and construction of roadways along fronting portions of Blundell Road, Francis Road and Savage Road, new water and sanitary services to the property, and a new storm system discharging directly to the main arm of the Fraser River. The final routing of the storm discharge line will be determined through the Servicing Agreement review process which is identified under the Development Permit considerations (Attachment 2).

Roads through the site (shown on the concept plans as "Road A" and "Road B") will be privately owned (Statutory Rights-of-Way to allow public right-of-passage) and maintained by the owner. Because of the time span involved and the nature of the development, the servicing issues and associated agreements will be addressed through several separate Servicing Agreements as outlined later in this report and in the Development Permit considerations.

Subsequent sections of this report provide more information on the development proposal and how it addresses the specific conditions of the site. For a comparison of the proposed development data with the relevant bylaw requirements, please refer to attached Development Application Data Sheet provided in Attachment 1.

Background

Development surrounding the subject site is as follows:

To the north: A 54 ha (132.5 acre) Agriculture (AG1) zoned parcel owned by Ecowaste

Industries and operated as a landfill site under the authority of the Ministry of

Environment.

To the east: No. 7 Road Canal and Port Metro Vancouver's Port terminal and associated

industrial lands. These properties are zoned "Industrial (I)".

To the south: A Canadian National Railway right-of-way and a 30.35 ha (75 acre) lot owned by

Port Metro Vancouver (PMV) are located immediately south of the development site. The PMV site is currently vacant, but is expected to be used for port related industrial uses. The western most portion of PMV's site is being considered for the proposed Vancouver Airport Fuel Facilities Corp. (VAFFC) jet fuel storage

tank facility. The PMV site is zoned "Industrial (I)".

On the south side of Williams Road, is a 3.8 ha (9.5 acre) "Industrial (I)" zoned parcel owned by the VAFFC. The VAFFC is proposing to use this property for

its YVR marine terminal facility for receiving jet fuel.

To the west: Across the Savage Road road allowance, five (5) large lots all within the

Agricultural Land Reserve. Zoning on four (4) of the properties is Agricultural (AG1); while zoning on the fifth lot is Golf Course (GC). The golf course is known as "Country Meadows". Only one (1) of these lots is currently being

farmed.

Environmental Management Act (EMA) Restriction

As the development site includes an active landfill, Ecowaste has been working with the Province to fulfill the requirements for an "administrative guidance" release which would allow the City's to issue the necessary permits and approvals for this project to proceed. The Development Permit considerations include the requirement for receipt of authorization by the Ministry of Environment prior to the Permit's approval.

Staff Comments

The proposed scheme attached to this report has satisfactorily addressed the significant urban design issues and other staff comments identified as part of the review of the subject Development Permit application. In addition, it complies with the intent of the applicable sections of the Official Community Plan (OCP) and is generally in compliance with the "Industrial (I)" zoning except for the zoning variances noted below.

Zoning Compliance/Variances (staff comments in bold)

The applicant requests to:

- 1) Vary the provisions of Richmond Zoning Bylaw 8500 to:
 - a) Increase the maximum height for buildings from 12.0 m to 13.0 m and that the building height is to be measured from the finished foundation slab of each building, and further to apply the Geological Survey of Canada (GSC) datum shown on the phase block plan attached as "Schedule B" as the maximum elevation limits for the tallest point on each building.

(The height variance has been requested by Ecowaste, as the demand within the logistics industry, and industry in general, is for internal building clearances of 11 m (36 ft.) to support their operations. Ecowaste has advised that achieving these internal clearances is critical for this development to attract the AAA tenants they are targeting. These internal clearances will translate into external building heights of approximately 13 m (43 ft.) as measured from the building's finished slabs as opposed to the approach specified in the Zoning Bylaw of measuring the vertical distance between finished site grade and the highest point of the building.

As the elevations of the corners of the lot, which are typically used to calculate the average ground elevation, are well below the proposed final finished height of the site, the standard approach for calculating building height in this site would mean that the proposed buildings would not achieve even the existing bylaw permitted height of 12 m. On this basis the alternative approach is warranted.

This variance also places an absolute maximum to the heights of the proposed buildings since the building height is to be measure from the building slab rather than the average ground surface which will change as the land fill is raised. Any requests for additional height above the proposed height cap will require a separate variance application.

As discussed above, application of the average grade calculation is problematic in this situation and the adjacent public roads are well below the anticipated future final site grade. Based on the submitted cross sections, the two (2) private internal roads ("Road A" and "Road B") will be brought up to approximately the same elevation of the final finished grade of the site. From this perspective, a publically accessible roadway will be provided at a comparable elevation for most of the proposed building's sites.

On the basis of this information staff recommend support for the height variance and the height measurement approach for this development to allow it to respond to the needs of industry.)

b) Reduce the minimum number of parking spaces required to 0.56 spaces per 100 m² of gross leasable floor area for those portions of the building used for freight forwarding services or warehouse storage services.

(The applicant has retained a traffic consultant to undertake a parking study which included a survey of ten (10) comparable industrial sites in the area, and research best practices for similar situations and other municipalities. The proposed reduced rates are reflective of the typical parking demand observed by the traffic consultant in the area, as well as reflective of a lower parking required by other municipalities. The proposed parking rate for the specified freight forwarding services and warehouse storage services is support by staff accordingly. Other uses will be required to meet the City's standard general industrial parking rates as outlined in the Zoning Bylaw.)

Analysis

City Objectives

Staff worked with Ecowaste and their consultants through several iterations of the redevelopment plan as it evolved. Key objectives identified and addressed in the Ecowaste submission are as follows:

- Address the agricultural lands/industrial interface requirements.
- Identify and address RMA and ESA impacts and compensation requirements.
- Minimize new storm discharges to the No. 7 Road Canal.
- Address the Green Roof Bylaw requirements while incorporating the storm discharge restrictions.
- Ensure appropriate utility service levels to the development while minimizing City liability of infrastructure over the landfill.
- Ensure provision of adequate vehicle access for this development and future transportation needs.
- Minimize new traffic to the Steveston Highway and Highway 99 Interchange. The responses to these objectives are more fully detailed in the following discussions.

Project Timing

The proposed development of the site is anticipated to occur in sequential phases over a number of years, dependent upon how quickly areas of the landfill operation reach capacity, the market's demand for light industrial buildings and the approach to servicing the site. A series of legal agreements have been identified in the Development Permit Considerations to ensure that subsequent Servicing Agreements, environmental compensation measures and overall site landscaping requirements are developed as specific areas are developed.

ALR Buffer Requirements

The development site is bounded by the Agricultural Land Reserve (ALR) on both its northern side and its western side. The ALR boundary runs adjacent to the development along the length of Blundell Road and Savage Road. Under Section 14.0 "Development Permit Guidelines" of the Official Community Plan (OCP) sites abutting the edge of the Agricultural Land Reserve are required to provide landscape buffers intended to minimize the impacts of new development on agricultural land. These buffers aim to achieve public safety and minimize agricultural-urban land use conflicts and complaints.

Because of the site configuration, there are three (3) different landscaping buffer treatments proposed to respond to the ALR Buffer requirements. The locations and cross sections for these areas are shown on Plans 4a and 4b with each described in more detail in the following text.

Blundell Road

Along Blundell Road, the buffer will be located on the south side of the road on Ecowaste property. The buffer will be approximately 8 m wide; starting from the edge of the parking area and continuing northward down the slope toward Blundell Road. The vegetation plantings within this buffer will consist of appropriate low level ground covers, followed by a solid vegetated hedge/screen and equally spaced trees (a mix of deciduous and coniferous varieties). The shrubs and trees will be spaced to minimize light overspill from vehicles and trucks using the site.

Savage Road (north of Francis Road)

This area will have a gradual slope rising up 13 m over the adjacent service road. An 8 m wide strip will be enhanced to act as the ALR buffer consistent with the Blundell Road buffer and will contain a row of trees and vehicle light screening shrubs at the top of the bank. The balance of the slope will be grassed.

Savage Road (south of Francis Road)

The ALR buffer south of Francis Road will be divided into two halves; a 3 m wide strip in the City right-of-way along the western side of the proposed newly constructed Savage Road and a 3-4 m wide strip on Ecowaste's property at the top of the slope that will provide vehicle light screening. The portion of the buffer on City lands will be maintained by the City after the initial maintenance period has completed.

The buffer on the east side of Savage Road (on the development site) will consist of a double row of shrubs/groundcovers (trespass inhibiting), a single row of solid planted screen (hedge or other) and a single row of trees (a mix of deciduous and coniferous).

The buffer on the west side of Savage Road (on the City's right-of-way) will consist of a 6 ft. high (approximately) fence and a solid planting screen/hedge between fence and edge of the road's curb.

Agricultural Advisory Commission (AAC) Review

Representative detail sections of the proposed planting strips, plant species listings, cross sections and overall selection counts are provided in the plan submission. The proposed ALR buffer configurations were reviewed by the Agricultural Advisory Commission (AAC) initially on September 2011 and again, with a revised plan, on June 21, 2012. The ALR buffer was supported by, the AAC at their June 21, 2012 meeting.

As none of these ALR buffers can be planted until the landfill has been raised as each of the landfill cells reaches capacity and is capped off and prepared for industrial redevelopment. The Development Permit considerations include requirements for the registration of legal agreements to provide ALR landscape buffer plans, cost estimates current to the date of submission and landscape securities prior to the Building/Foundation Permits being issued in either phase block A, B, C or E (as per (Schedule B"). The submitted plans are required to be consistent with the ALR buffer plans submitted under this Development Permit and must be to the satisfaction of the Director of Development.

Habitat Impacts

As the site has been used as an active landfill there is very limited ESA vegetation on site. The applicant's consultant, Keystone Environmental, has conducted site investigations and analysis of the site and has found that approximately 6,742 m² (72,570 ft²) identified in the OCP as ESA do not carry sufficient features to warrant that designation. The majority of these areas are stands of invasive shrubs either on Ecowaste's property or within the Savage Road right-of-way.

An ESA response strategy is required because the Biologist's site investigations have identified impacts to approximately 4,383 m 2 (47,178 ft 2) of valued habitat features including 1,440 m 2 (15,500 ft 2) of aquatic habitat and 2,943 m 2 (31,678 ft 2) of terrestrial habitat. The impacts will occur in three (3) areas:

- No. 7 Road Canal due to the installation of the proposed bridge.
- Savage Road, south of Francis Road due to the future construction of Savage Road.
- At Williams Road, by the Fraser River, to accommodate the storm water discharge outfall

Each of these impacts and the proposed compensation responses are outlined in the following sections.

Riparian Management Area (No. 7 Road Impacts and Compensation)

Vehicle access to the redeveloped site is proposed to be achieved via a new bridge over the No. 7 Road Canal and construction of paved roadway from the Canal to just westward of the proposed "Road B". Construction of the new bridge will result in unavoidable impacts within the No. 7 Road Canal RMA requiring compensation for the loss of approximately 1,373 m² (14,774 ft²) of terrestrial vegetation.

The proposal will provide compensation in the form of invasive species removal and enhancement planting of 3,731 m² (40,161 ft²) on Ecowaste's property adjacent to the No. 7 Road Canal. A representative cross section of the proposed enhancement plan and the overall numbers and types of shrubs proposed for this area is provided in Plan 6. All vegetation species installed for the RMA compensation will be native species.

To secure the RMA planting requirements, the Development Permit Considerations include requirements for submission of a registerable survey plan(s), detailed landscaping plans prepared by a Qualified Landscape and or Environmental Professional reflective of the planting scheme provided as part of this Development Permit and to the satisfaction of the Director of Development, plus appropriate securities prior to issuing the Development Permit. Monitoring and annual reporting of the RMA landscape installation is required for a minimum of five years. The landscaping plans submitted under this application provides a detail for a representative segment of the area to be planted/enhanced plus an overall number of trees, shrubs and ground cover vegetation needed to plant the enhancement area.

The RMA impacts along the No. 7 Road Canal will occur in the first phase of the redevelopment since access to the site from Blundell Road is one of the Development Permit considerations.

Riparian Management Area and Environmentally Sensitive Area (Savage Road South) Keystone Environmental's assessment indicates that habitat compensation will be required for a total of 2,963 m² (31,895 ft²) of impacts. Of this total, 1,393 m² (14,995 ft²) are impacts to aquatic habitat and 1,570 m² (16,900 ft²) are impacts to terrestrial habitat associated with preloading and construction of the road.

The habitat impacts along Savage Road are not anticipated to occur until preloading for Savage Road is required during the last phase of the development. The Development Permit considerations include a "no build" covenant registered on Title over 15111 Williams Road to ensure that the compensation wetland costs are reassessed at that time and securities submitted covering the cost of construction. Inspections will be carried out by staff upon completion of the installation to ensure that the wetland meets the intent of replacement and enhancement outlined in the Development Permit.

No compensation measures are proposed along the Savage Road corridor south of Francis Road. Compensation for the habitat impacts in this location is proposed to be provided as part of a constructed upland wetland that will be on Ecowaste property (15111 Williams Road) – refer to the Habitat Balance Sheet Summary for more details on the proposed wetland.

Environmentally Sensitive Area (Storm Water Discharge to Fraser River)

With the installation of the proposed storm water direct discharge pipe approximately 47.5 m² (511 ft²) of brackish aquatic impacts will occur with the outfall installation. These impacts are not anticipated to occur until the Storm Water Discharge Servicing Agreement has been agreed to. Compensation habitat is secured through the same "no build" covenant registered on Title over 15111 Williams Road as noted above for Savage Road South.

Compensation for the habitat impacts in this location is proposed to be provided as part of a constructed upland wetland that will be on Ecowaste property (15111 Williams Road). The foreshore aquatic impacts may be subject to approval and additional compensation measures by the Province. This will be determined through the Servicing Agreement for the proposed storm water pipe construction.

Wetland Habitat Compensation

Ecowaste has proposed to construct a wetland habitat in the northeast corner of their property south of Francis Road (15111 Williams Road) to offset ESA and RMA impacts primarily from the Savage Road and Fraser River foreshore area. Ecowaste's plan sets aside an area of approximately 10,000 m² which will be excavated down to the water table to create a ponding area with aquatic plants and ringed by a variety of native riparian vegetation species. Within this area, they propose to provide approximately 1,588 m² of aquatic habitat and 3,230 m² of terrestrial/riparian habitat.

Keystone's wetland feasibility study (Keystone Environmental report dated May 3, 2016) recommends that the water levels be monitored for at least a year prior to construction to ensure the design depth is sufficient to establish a sustainable wetland habitat. The Development Permit considerations include a requirement for submission of a contract with a qualified environmental professional to undertake the monitoring as per the Wetland Feasibility Study.

The wetland habitat compensation will not be created until the last phase of the development project. As this may be a number of years away, the Development Permit considerations include requirements for submission of an updated landscaping design, cost estimate and securities. The requirements are linked to the "no build" covenant over 15111 Williams Road. A vegetation conceptual cross section of the wetland and an overall total number of trees and shrubs proposed for the wetland is provided on Plan 5.

Habitat Balance Sheet Summary

Ecowaste's Development Permit submission includes a detailed habitat balance sheet that indicates where and what type of habitat impacts are expected to occur as a result of the development proposal and correspondingly where and how much habitat compensation is proposed to offset the impacts.

The tables below provide a simplified summary of the habitat impacts and proposed habitat compensation. The overall impacts total approximately 4,383 m² (47,178 ft²). The overall compensation totals 8,651 m² (93,118.6 ft²). The data suggests an overall net benefit of nearly 2 for 1. The tables also indicate that 'like for like' habitat will be created (i.e. both aquatic and terrestrial habitat types are addressed).

Habitat Impact Summary

Location	Aquatic Impacts (m ²)	Terrestrial Impacts (m ²)
No. 7 Road Canal (Bridge)	-	1,373 m ²
Savage Road & Vicinity	1,393 m ²	1,570 m ²
Fraser River Storm Outfall	47.5 m ²	-
Total Impacts	1,440 m ²	2,943 m ²

Combined Impact: 4,383 m²

Proposed Habitat Compensation Summary

Location	Aquatic Compensation (m ²)	Terrestrial Compensation (m ²)
Constructed Wetland	1,588 m ²	3,230 m ²
Williams Road Culvert	32 m ²	70 m ²
No. 7 Road Canal	-	3,731 m ²
Total Compensation	1,620 m ²	7,031 m ²

Combined Compensation: 8651 m²

Aquatic Balance: Gain - Loss = $1620-1440 = 180 \text{ m}^2 \text{ gain}$ Terrestrial Balance: Gain - Loss = $7031-2943=4089 \text{ m}^2 \text{ gain}$

Net Habitat Balance: Gain/Loss = 8651/4383 = 1.97 gain to 1 loss

Green Roof Bylaw Response

Two (2) key objectives of the Green Roof Bylaw (Bylaw No. 8385) are: 'runoff control & storm water management' and 'landscaping enhancement'. The solution proposed by Ecowaste in consultation with the Engineering Department is that storm water would be collected on-site and directed through a privately-owned pipe that discharges directly to the main arm of the Fraser River, sufficient to address the 20% reduction in storm water discharge required under the Green Roof Bylaw. Construction of the pipe will occur through a separate Servicing Agreement. The Development Permit considerations include conditions for entering into the Servicing Agreement for this work prior to issuance of the development's second Building Permit.

To address the landscape provisions of the Green Roof Bylaw, Ecowaste has prepared a landscape strategy and a "landscaping master plan" which should result in an approximate five (5) times the amount of landscaping for the entire site as compared to the Zoning Bylaw standards according to the Landscape Strategy submitted by Sharp & Diamond Landscape Architecture (submission dated November 10, 2015). The landscaping master plan provides cross sections, detailed representative planting segments and overall vegetation counts for each phase of the development. These documents will be used to guide the individual landscaping submissions for each of the future building lots.

The Development Permit Considerations include requirements for the submission of detailed planting plans and landscape securities with each Building/Foundation Permit application to the satisfaction of the Director of Development, consistent with the landscaping master plan

submitted as part of this Development Permit. Once an acceptable plan has been approved, the owners will be required to register an agreement on Title, ensuring that the landscaping will be maintained in perpetuity or until the site is redeveloped. These requirements are secured through "no build" legal agreements registered on the Titles of both parcels.

Site Servicing Overview

Ecowaste has worked with City staff to develop a servicing strategy including the following:

- A new two-lane bridge on Blundell Road, with an off-road multi-use pathway, is proposed to be built over the No. 7 Road canal and act as the main access to the site. This bridge and construction of the road surface, curbing, boulevard lighting and off-road pathway features over a portion of Blundell Road will be undertaken in the first phase of the development (as per "Schedule B").
- A restricted temporary discharge of surface storm run-off will be allowed to the No. 7 Road canal from the first phase of the development until a new storm discharge system has been installed leading from the site southward toward Williams Road, through the dike and then to a direct discharge station at the Fraser River as outlined in the Development Permit Considerations
- Water and sanitary utility services will be provided up to the property boundaries. Internal distribution and maintenance within the site will be the responsibility of the property owners. In part, this approach is intended to limit the City's exposure to liability of utility lines over the landfill. The Development Permit considerations include requirements for entering into a License Agreement for construction of the sanitary forcemain across Francis Road prior to the development's first Building Permit issuance on 15111 Williams Road (i.e. the parcel south of Francis Road).
- Road improvements to Blundell Road, Francis Road and Savage Road will be undertaken by the developer under one or more Servicing Agreements. The finished works will include lighting, curbs and gutters, sidewalks and/or off-road multi-use pathways and treed boulevards. Francis and Savage Roads are to be designed and constructed to their ultimate standards, while Blundell Road will be designed and constructed to an interim standard. Blundell Road improvements will occur in the first phase of the development, while Francis Road and Savage Road improvements will occur in the final phase of the development and will be secured through "no build" covenants over the last phase of lands to be developed. These legal agreements will be secured through the Servicing Agreement.
- All roads and sidewalks/pathways on Ecowaste's site will be privately-owned and
 maintained. This approach is similar to that proposed for the utility services and is again
 intended to limit the City's exposure to liability of roadways over the landfill.
 Agreements for public right of access on the main internal roads and sidewalks/pathways
 will be registered on Title as outlined in the Development Permit considerations as a
 condition of the Development Permit issuance. Refinements to these agreements may
 occur through the subsequent Servicing Agreements required at Building Permit stage.

The on-site roads and sidewalks/pathways will be constructed in association with phase blocks A through D (as per "Schedule B") of the development.

Transportation

The Development Permit considerations include the City's requirements for all the road dedications, road cross sections for both public and private roads with public right-of-passage and vehicle parking and loading. The considerations also include requirements for a special crosswalk on Blundell Road at "Road A" and for the acquisition and dedication of a 2000 m² section of Savage Road which is currently under private ownership by Sanstor Farms Ltd. and is within the Agricultural Land Reserve (ALR). Ecowaste will need to undertake a separate application to the Agricultural Land Commission for subdivision (including necessary road dedication) of the 2000 m² section of Savage Road as a requirement of phase block E (as per "Schedule B") Servicing Agreement. This Agricultural Land Commission (ALC) application will need to be considered by Richmond City Council prior to the ALC.

Should Ecowaste be unsuccessful in acquiring the road or obtaining the necessary subdivision approvals the panhandle lands south of Francis Road (Block E) may need to be revisited through either a General Compliance application or a new Development Permit.

The development plans incorporate a cul-de-sac on the future Savage Road construction south of Francis Road. The intent is to restrict new vehicle activity from the development site and development sites east of the No. 7 Road Canal from accessing Steveston Highway and the Highway 99 interchange via Williams Road until such time the necessary road infrastructure is in place. At this time, the objective of these traffic measures is to not increase the traffic generated at the Steveston Highway/Highway 99 Interchange until additional planning and transportation infrastructure upgrades occur along the Highway 99 corridor (including applicable highway interchanges). The Development Permit considerations include a legal agreement restricting vehicles associated with the development to access via Blundell Road. The considerations also require the owners to notify prospective tenants of the restricted access conditions.

Until the development of roads occurs along Savage and Francis Road, secondary access (for emergency vehicles) needs to be provided for the northern lot once buildings are constructed to account for an alternative access route in the event of a blockage on Blundell Road. The proponent has indicated that a network of existing internal service roads currently provides access throughout the development site, including a means to access the entire development site from Williams Road. These roads are currently utilized by Ecowaste vehicles and large trucks for maintenance and monitoring of the former landfill site and access to the active landfill operation on the north side of Blundell Road. The proponent has indicated that these internal service roads will remain (for private maintenance use only – no public access) throughout the build-out of the development and can be utilized to provide for secondary emergency vehicle and fire access. The Development Permit Considerations includes a requirement for registration of a legal agreement providing emergency services access across both properties.

Additional Considerations

The Development Permit considerations include a requirement for the submission of a geotechnical report to be submitted at the Building Permit review stage to ensure that buildings can be safely constructed overtop of the land fill.

Public Art

Pursuant to the City's Public Art Policy (No. 8703) Public Art contributions will be secured with each new Building Permit application through a "no build" Public Art covenant over both parcels. The Public Art covenant is included in the Development Permit considerations. The rate of contribution will be determined as of the date of Building Permit application.

Operating Budget Impacts (OBI)

As a result of the proposed development, the City will take ownership of developer contributed assets such as a bridge, roadworks, waterworks, storm sewers, sanitary sewers, street lights, street trees and traffic signals on Blundell Road and Savage Road. The anticipated operating budget impact for the ongoing maintenance of these assets \$105,000.00. This will be considered as part of the 2018 Operating budget.

Conclusions

Ecowaste has worked closely with staff to refine the site's overall design and develop acceptable servicing strategies for the two (2) parcels. The Development Permit considerations provide sufficient safeguards to ensure that subsequent Servicing Agreements, land dedications, landscaping requirements and ESA /RMA environmental impacts will be appropriately addressed over the development's extended time span. The proposed variances outlined in the Development Permit application have been reviewed and are supported by staff from a technical standpoint in terms of contributing to the creation of a modern logistics hub and the development's unique placement atop a former landfill site. Staff are recommending support for the variances and the redevelopment proposal outlined in this report and the submitted plans.

David Brownlee

Planner 2

(604-276-4200)

DCB:blg

Attachments:

1 Development Permit Considerations

2 Development Application Data Sheet



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

Address: 15111 Williams Road and Richmond Key 1095

File No.: DP 11-566011

- Prior to approval of the Development Permit, the developer is required to complete the following:
 - 1. <u>Ministry of Environment</u> (MOE) Certificate of Compliance or alternative approval to proceed granted from MOE regarding potential site contamination issues. This approval is required prior to Development Permit Issuance.
 - 2. Flood: Registration of a flood plain covenant on Title identifying a minimum habitable elevation of 3.0 m GSC.
 - 3. Servicing Agreement No Building 15111 Williams Road: Registration of a legal agreement on Title for 15111 Williams Road requiring that, no Building Permit for 15111 Williams Road will be issued until a Servicing Agreement has been entered into for the related servicing works for Francis Road, Savage Road, Williams Road and provision of services to the site, to the satisfaction of the Director of Engineering.
 - 4. <u>Public Art & Landscape Plans:</u> Registration of a legal agreement on Title for 15111 Williams Road and Richmond Key 1095 that with every new Building Permit (excluding tenant interior improvements) a permit will not be issued until the following items have been addressed:
 - 4.1 A voluntary cash contribution shall be made to Richmond's Public Art Reserve fund prior to the issuance of the Building Permit. The contribution is to be based on the approved floor area at each building permit application, the building type and the Public Art Contribution rate at the time of Building Permit application submission.
 - 4.2 Submission of a detailed landscape plan and installation cost estimate (including materials and labour plus contingency) prepared by a BCSLA and appropriate security to the satisfaction of the Director of Development. The submitted landscape plan is to be generally in accordance with the master site landscape plan submitted under DP 11-566011.

The legal agreement is to include clauses ensuring that the enhanced landscaping is maintained in accordance with generally accepted landscaping maintenance practices and the recommendations of the landscape architect in perpetuity or until approved redevelopment. If not already completed for the phase block (see "Schedule B" of DP 11-566011) where the new Building Permit site is located, the landscape plan and security is to include the Agricultural Land Reserve landscape buffer components for that phase block. The detailed agricultural landscaping plan(s) are to be prepared by a Qualified Landscape Professional and acceptable to the Director of Development; showing the type, size and number of trees, shrubs, ground covers and growing medium that will form the ALR landscape buffer.

- 5. Private Roads: Registration of a Statutory Right of Way inclusive of appropriate survey plan(s) prepared by a BCLS and acceptable to the Director of Engineering and Director of Transportation showing the alignment and extent of internal private roadways and pedestrian/bike pathways (i.e., along "Road A", "Road B" and Blundell Road) on Title providing public right-of-passage (owner to maintain). The dimensions and alignment of the right-of-ways are to be based on the requirements identified under the Engineering Servicing Requirements and the Transportation Requirements sections below. If required, and at the discretion of the Director of Engineering and Director of Transportation, these legal agreements may need to be discharged and replaced or modified as the precise alignment and dimensions of the right-of-ways are refined through subsequent Servicing Agreements associated with each future Building Permit. Except as specified by the Engineering Servicing Requirements and the Transportation Requirements sections liability, construction and maintenance for works within the right-of-ways are the responsibility of the Owner.
- 6. <u>Vehicle Access Restriction</u>: Registration of a legal agreement on Title of 15111 Williams Road and Richmond Key 1095 the sole vehicle access to/from the both properties will be via Blundell Road unless otherwise

- authorized by the Director of Transportation; that is, no vehicular access would be provided to/from the south via Williams Road unless authorized. Exceptions to the access restriction will be made for City utility service vehicles, emergency vehicles, transit vehicles, bicycles and pedestrians. Additionally, the access restrictions will not apply to vehicles engaged in the ongoing landfill and closure operations.
- 7. <u>Letter of Commitment:</u> Submission of a letter of commitment by Ecowaste to ensure that all future tenants in the development are aware that, unless authorized by the Director of Transportation, access to the proposed development site is to be solely via Blundell Road and not to Williams Road via Savage Road. Exceptions to the access restriction will be made for City utility service vehicles, emergency vehicles, transit vehicles, bicycles and pedestrians.
- 8. <u>ALR Buffers:</u> Registration of a legal agreement on Title of 15111 Williams Road and Richmond Key 1095 for agricultural landscaping buffers to secure:
 - 8.1 A survey plan prepared by a BCLS showing the dimensions and locations of the Agricultural Land Reserve (ALR) landscaped buffer required along Blundell Road and Savage Road.
 - 8.2 Outlining conditions ensuring that no structures or debris will be placed within the ALR buffer area and that the Agricultural Land Reserve (ALR) landscaped buffer is maintained at the sole cost of the developer/property owner and will not be abandoned or removed. The legal agreement would also indicate that the property is located adjacent to active agricultural operations and that the ALR landscape buffer is to help mitigate against potential agricultural impacts including noise, dust and odour. The agreement is to include clauses giving the City the right to enter the ALR buffer areas to repair and maintain the landscaping, at the sole cost of the developer/property owner, should the owners fail to do so.
- 9. <u>RMA</u>: Registration of a legal agreement on Title of Richmond Key 1095 for Riparian Management Area (RMA) compensation (No. 7 Road Canal impacts) to secure the following:
 - 9.1 Survey plan(s) prepared by a BCLS showing the dimension and location of the RMA compensation landscaping areas along the No. 7 Road Canal.
 - 9.2 Submission of detailed landscaping plans prepared by a Qualified Landscape and or Environmental Professional with appropriate security (including materials and labour costs plus contingency) to the satisfaction of the Director of Development. The plans shall include the type, size and number of trees, shrubs, ground covers and growing medium that will form the compensation landscaping.;
 - 9.3 <u>RMA Security:</u> Submission of landscaping security to the satisfaction of the Director of Development for the Riparian Management Area (RMA) compensation (No. 7 Road Canal impacts) based on the RMA planting plan submitted under DP 11-566011. The security is to be based on an installation cost estimate prepared by a BCSLA inclusive of materials and labour costs plus a 10% contingency. The cost estimate shall include cost breakdowns for the type, size and number of trees, shrubs, ground covers and growing medium that will form the compensation landscaping.
 - Onditions ensuring that no structures or debris will be placed within the compensation area and that, once installed, the compensation landscaping is maintained and will not be abandoned or removed. Conditions are to include submission of monitoring reports by a Qualified Environmental Professional (QEP) for a minimum of five years from the date of the initial satisfactory landscape inspection by the City. The agreement is to include clauses giving the City the rights to enter the RMA compensation areas to repair and maintain the landscaping should the owners fail to do so.
 - 9.5 Submission of a Contract entered into between the applicant and a Qualified Environmental Professional (QEP) for supervision of any on-site works conducted within or adjacent to the environmental compensation areas. The Contract should include the scope of work to be undertaken, including: the proposed number of site monitoring inspections, and a provision for the QEP to submit a post-construction assessment report to the City for review.
- 10. <u>ESA No Build 15111 Williams Road:</u> Registration of a "No Build" legal agreement on Title of 15111 Williams Road for Environmentally Sensitive Area (ESA) and Riparian Management Area (RMA)

compensation measures (Savage Road impacts). A Building Permit will not be issued until the following conditions have been addressed to the satisfaction of the Director of Development:

- 10.1 Submission of detailed landscaping plans and detailed installation cost estimate prepared by a Qualified Landscape and or Environmental Professional for the ESA/RMA compensation area to the satisfaction of the Director of Development and generally corresponding to the compensation requirements outlined in the Habitat Balance sheet submitted under DP 11-566011. The plans shall include the type, size and number of trees, shrubs, aquatic vegetation, ground covers and growing medium that will form the compensation landscaping.
- 10.2 Submission of a landscaping security based on the updated ESA/RMA compensation landscaping plan and cost estimates current to the date of submission. Cost estimates are to include materials, labour and monitoring costs plus a 10% contingency.
- 10.3 Survey plan prepared by a BCLS showing the configuration and dimensions of the ESA/RMA compensation area as submitted under DP 11-566011;
- Registration on Title of a legal agreement for the conservation and ongoing maintenance of the ESA/RMA compensation area to the satisfaction of the Director of Development. The agreement shall include the accepted detailed landscaping plan including the type, size and number of trees, shrubs, ground covers and growing medium that will form the compensation landscaping. The agreement is to ensure that no structures or debris will be placed within the compensation area and that, once installed and approved by the City, the compensation landscaping is maintained and will not be abandoned or removed. The agreement is also to include submission of monitoring reports by a Qualified Environmental Professional (QEP) for a minimum of five years from the date of the initial satisfactory landscape inspection by the City. The agreement is to include clauses giving the City the rights to enter the Environmental Compensation areas to repair and maintain the landscaping should the owners fail to do so.
- 10.5 Submission of a Contract entered into between the applicant and a Qualified Environmental Professional (QEP) for supervision of any on-site works conducted within or adjacent to the environmental compensation areas and to oversee the construction of the compensation wetlands at 15111 Williams Road. The Contract should include the scope of work to be undertaken, including: the proposed number of site monitoring inspections, and a provision for the QEP to submit a post-construction assessment report to the City for review.
- 11. <u>Water Table Monitoring:</u> Submission of a contract, to the satisfaction of the Director of Engineering, for a qualified Environmental Professional to undertake the water table monitoring for the proposed wetland compensation as outlined in the Wetland Feasibility Study and Conceptual Design report by Keystone Environmental dated May 3, 2016.
- 12. <u>Emergency Access:</u> Registration of a legal agreement on Title of 15111 Williams Road and Richmond Key 1095 providing emergency services to access across both properties.

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

- 1 Enter into the legal agreements and Servicing Agreements* as outlined in the Engineering Servicing Requirements and the Transportation Requirements sections below.
- 2 Submission of geotechnical report(s) prepared by a professional engineer or geoscientist and experienced in geotechnical engineering verifying that the land may be used safely for the use intended.
- 3 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.
- 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.

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.

Engineering Servicing Requirements

Scope: ECOWASTE INDUSTRIES LTD. has applied to the City of Richmond for permission to develop a 169-acre Industrial Logistics Park at 15111 Williams Road and No Access Parcel 1095. A Development Permit is required as the proposed road and bridge infrastructure is adjacent to an Environmentally Sensitive Area, a Riparian Management Area and the Agricultural Land Reserve (ALR).

Ecowaste Industries Ltd. has presented a servicing strategy for the Richmond Industrial Centre Development's proposed bridge, road, stormwater, water and sanitary servicing, dated December, 2015. Generally, the document provides a servicing strategy that can be used as a basis for creating Servicing Agreement drawings. Key issues and other requirements that must be addressed through servicing agreements* are outlined below. Minor issues and currently unknown issues must also be resolved through the servicing agreements.

Since the servicing document was submitted its content has been reviewed on an on-going basis. As such, some of the issues listed here-in may already have been resolved.

Servicing Agreements and Other Agreements

- The Developer is required to:
 - 1. Prior to the development's first Building Permit issuance for the site, enter into a Servicing Agreement to complete the interim works on Blundell Road. Drawings for the development's entire off-site works (including Savage Road, Francis Road and all private works within statutory right-of-ways for public passage) should be presented for City approval and clearly demarked to show all construction phasing.
 - 2. Prior to the development's second Building Permit issuance, enter into agreements for the development's proposed stormwater pipe to cross Francis Road, Dyke Road, Lot K and, if necessary, Williams Road and to define property owner management obligations for private infrastructure and drainage discharge between two (2) separate land parcels. Parcel to parcel agreements must be registered at LTO prior to infrastructure construction.
 - 3. Prior to the development's first Building Permit issuance on land located south of the Francis Road dedication (i.e. 15111 Williams Road), enter into agreements for the development's proposed sanitary forcemain to cross the City's Francis Road dedication and to define property owner management obligations for private infrastructure and sewage discharge between two (2) separate land parcels. Parcel to parcel agreements must be registered at LTO prior to infrastructure construction.
 - 4. Prior to the development's first Building Permit issuance on land located south of the Francis Road dedication (i.e. 15111 Williams Road), enter into a Servicing Agreement to complete the ultimate works on Francis Road and Savage Road. The City reserves the right to request amendments to these drawings should the form of development vary from that proposed in the Development Permit application, should the City's engineering standards change prior to the Servicing Agreement being signed or if, based on the aforementioned Servicing Agreements construction, there are technical reasons to require such change.
 - 5. Enter into, depending on the applicant's preference, one or more servicing agreements to complete the Francis Road and Savage Road pre-load works. The timing to enter these agreements may vary depending on the developments construction schedule requirements.
 - 6. Coordinate pre-load works along Savage Road with pipeline works proposed by the Vancouver Airport Fuel Facilities Corporation to ensure that neither parties work precludes construction of the other and to ensure that ground is adequately pre-loaded prior to the road's ultimate construction.
 - 7. On all Servicing Agreement (SA) drawings clearly show where land owner maintenance responsibilities end and City maintenance responsibilities begin. As a general rule, the City will not own and maintain infrastructure outside of the existing road dedications.

Water Works

- The Developer is required to:
 - 8. Submit Fire Underwriter Survey (FUS) or International Organization for Standardization (ISO) fire flow calculations to confirm the development has adequate fire flow for on-site fire protection. Calculations must be signed and sealed by a Professional Engineer and be based on Building Permit Stage and Building designs.
 - 9. Design private watermains within "Road A" and "Road B" to meet all applicable standards (Plumbing Code, City Engineering Specs and others as required). Pipe inspections to be made by the City's plumbing inspectors (add notes to drawings).

Storm Sewer Works

- The Developer is required to:
 - 10. Limit the permanent drainage catchment into the No. 7 Road drainage canal to that of Blundell Road and the north entrances of "Road A" and "Road B".
 - 11. Limit the temporary drainage catchment into the No. 7 Road drainage canal to that of the development's first building and its adjacent parking lots.
 - 12. Construct, prior to the construction of subsequent buildings, a permanent drainage system discharging directly into the Fraser River.
 - 13. In the event that the permanent drainage pipe construction is delayed due to the on-going discussions with Port Metro Vancouver, an on-site stormwater storage system will be considered. An on-site storage system would need to attenuate storm flows so that the maximum peak flow from the first building's drainage catchment is not exceeded.
 - 14. Locate the development's drainage system on private property (no pipe is permitted to run in a north-south direction within Savage Road) apart from where it crosses Francis Road, Dyke Road, Lot K or other City controlled land.
 - 15. Assess the storm outfall's potential to erode/impact the Fraser River bank/foreshore present designs to prevent any identified impacts.
 - 16. Provide road drainage along Savage Road and Francis Road, no private tie-in permitted.
 - 17. Remove the storm overflow to Francis Road.

Sanitary Sewer Works:

- The Developer is required to:
 - 18. No additional items identified at this time.

Frontage Improvements and General Items:

- The Developer is required to:
 - 19. Own and maintain all sidewalks, bike paths, curbs, gutters, asphalt, streetlights, utilities and other similar infrastructure located above areas of land that are known or suspected to be used for landfill operation. This includes infrastructure located within the Ecowaste property fronting Blundell Road, with the exception of a small strip of asphalt (approx. 300 mm wide) between the concrete gutter and the property line, for which a Statutory Right-of-Way (SRW) agreement will be required.
 - 20. Prior to the construction of any building south of Francis Road, purchase and dedicate approximately 2,000 m² of land to complete the 20 m wide Savage Road dedication (immediately north of Williams Road), including obtaining all necessary approvals from the City and Agricultural Land Commission.
 - 21. Revise the Savage Road design to minimize the use of retaining walls on City dedication.
 - 22. Provide a signed and sealed geotechnical letter reviewing the revised retaining wall and embankment designs.
 - 23. Select plants for any steep sections of land within road dedication to have minimum maintenance requirements.
 - 24. Provide a detailed ultimate bridge layout (4 lanes, but not a full design) within the Servicing Agreement drawings to ensure that the ultimate road and bridge layout is conceptually acceptable. This should include any utilities that may be located beneath it.

- 25. Register all SRWs (including discharge and replacement or modification SRWs) prior to Servicing Agreement drawing approval.
- 26. Design the gravel section of Blundell Road to avoid erosion by storm events.
- 27. Add safety barriers along Savage Road wherever a safety issues requires them.
- 28. Install pre-duct for future hydro, telephone and cable utilities along all road frontages.
- 29. Locate all above ground utility cabinets and kiosks required to service the proposed development within the development site (see list below for examples). Please coordinate with the respective private utility companies and the project's lighting and traffic signal consultants to confirm the right-of- way requirements and the locations for the above ground structures. If a private utility company does not require an above ground structure, that company shall confirm this via a letter to be submitted to the City. The following are examples of SRWs that shall be shown in the functional plan and registered prior to Servicing Agreement design approval:
 - BC Hydro Vista Confirm SRW dimensions with BC Hydro.
 - BC Hydro PMT Approximately 4 m wide x 5 m (deep) Confirm SRW dimensions with BC Hydro.
 - BC Hydro LPT Approximately 3.5 m wide x 3.5 m (deep) Confirm SRW dimensions with BC Hydro.
 - Street light kiosk Approximately 2 m wide x 1.5 m (deep)
 - Traffic signal controller cabinet Approximately 3.2 m wide x 1.8 m (deep)
 - Traffic signal UPS cabinet Approximately 1.8 m wide x 2.2 m (deep)
 - Shaw cable kiosk Approximately 1 m wide x 1 m (deep) show possible location in functional plan. Confirm SRW dimensions with Shaw.
 - Telus FDH cabinet Approximately 1.1 m wide x 1 m (deep) show possible location in functional plan. Confirm SRW dimensions with Telus.
- 30. Provide other frontage improvements as per Transportation's requirements. Improvements shall be built to the ultimate condition wherever possible.
- 31. Provide, prior to first Servicing Agreement design submission, a geotechnical assessment of preload and soil preparation impacts on the existing utilities fronting or within the development site, proposed utility installations, and provide mitigation recommendations. The mitigation recommendations shall be incorporated into the first Servicing Agreement design submission or if necessary prior to pre-load.
- 32. Enter into 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, 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.

Transportation Requirements

1. Land dedication and PROP SROW:

Applicant responsible for dedicating land and providing the necessary Public Right-of-Passage Statutory Right-of-Way (PROP SROW) to accommodate the road/frontage works as noted below in item 2 along each of the development frontages. In general, the following list summarizes the total widths required to accommodate the road cross-sections; however, the exact width of the dedication and PROP SROW is subject to the review and approval of the detailed Servicing Agreement (SA) design of which would be based on the area necessary to accommodate the ultimate standards for both roads and intersections.

Dedications

- a. Savage Road: 20.0 m (as dedication)
- b. Francis Road: 20.0 m (as dedication)

PROP SROW*

- c. Blundell Road: 24.4 m (composed of a 1.10m wide strip of land along the south side as PROP SROW*, and the existing road right-of-way as dedication ranging between 19.12 m and 20.98 m in width, plus the northern edge where a strip of PROP SROW* ranging between 2.32 m and 4.18 m to be provided for the off-road pathway, proposed concrete curb and gutter and a strip of asphalt. The total dedication and PROP SROW* should be no less than 24.4 m).
- d. "Road B" (private road): 20.0 m (as PROP SROW*)
- e. "Road A" (private road): 20.0 m (as PROP SROW*)
- f. Minimum 4 m x 4 m corner cuts (as PROP SROW*) on the corners of intersections where two (2) roads intersect. The corner cut should be measured from the new property lines and/or new PROP SROW's*.
- *All PROP SROW's are to be maintained by the owner.

2. Road Cross-Sections:

Applicant responsible for the design and construction of the frontage works as noted in the Servicing Strategy dated December, 2015, submitted by the applicant. The document provides a servicing strategy that can be used as the basis to define the scope of the road and/or frontage improvements on a conceptual basis. The exact scope and extent of the road improvements would be reviewed and refined as part of the detailed Servicing Agreement process which will aim to achieve the following general cross-sections:

- a. Blundell Road Bridge over No. 7 Road right-of-way be constructed as part of the development (from north to south):
 - 0.3 m wide for handrail
 - 3.2 m wide paved shared pedestrian/cyclist path
 - 0.39 m wide concrete barriers with railing
 - 8.3 m wide asphalt pavement for vehicular traffic
 - 1.045 m wide street lighting & concrete median barriers

The interim bridge should be designed to allow for the future widening to the south to accommodate the following ultimate cross-section that would be in addition to the interim cross-section noted above (from north to south):

- 0.445 m wide for street lighting/median barriers
- 8.3 m wide asphalt pavement for vehicular traffic
- 0.39 m wide concrete barriers with railing
- 1.7 m wide concrete sidewalk path
- 0.3 m wide for handrail
- b. Blundell Road (from the proposed Blundell Road bridge to just west of "Road B") to be constructed as part of the development (from north to south):
 - 2.5 m wide paved shared pedestrian/cyclist path
 - 0.15 m wide curb/gutter
 - 8.3 m wide asphalt pavement for vehicular traffic (11.3 m at intersections with the additional width for left-turn bays)
 - 0.15 m wide curb/gutter
 - street lighting placed at 1.7 m south of the curb/gutter
 - 1.5 m wide sidewalk along the south side at the ultimate location, between "Road B" and "Road A".

Note that the ultimate cross-section for Blundell Road would consist of the above, and a "mirror image" of the above cross-section on the south side with the exception that the 2.5 m wide pathway that would be replaced with a 1.5 m wide concrete sidewalk.

- c. Savage Road, from Williams Road to Francis Road to be constructed as part of the development (from east to west):
 - 1.0 m wide transition/tie-in
 - 4.0 m wide shared pedestrian/cycling path
 - 1.5 m wide treed boulevard & street lighting
 - 0.15 m wide curb/gutter
 - 10.0 m wide asphalt for vehicular travel
 - 0.15 m wide curb/gutter
 - · remaining width for buffer
- d. Francis Road, from Savage Road to "Road B" to be constructed as part of the development (from south to north):
 - 0.85 m wide transition/tie-in
 - 2.5 m wide paved pedestrian/cycling path
 - 1.5 m wide treed boulevard & street lighting
 - 0.15 m wide curb/gutter
 - 10.0 m wide asphalt for vehicular travel
 - 0.15 m wide curb/gutter
 - 1.5 m wide treed boulevard & street lighting
 - 2.5 m wide paved pedestrian/cycling path
 - 0.85 m wide transition/tie-in
- e. "Road B" (private road), from Francis Road to Blundell Road to be constructed as part of the development (from east to west):
 - 0.85 m wide transition/tie-in
 - 2.5 m wide paved pedestrian/cycling path
 - 1.5 m wide treed boulevard & street lighting
 - 0.15 m wide curb/gutter
 - 10.0 m wide asphalt for vehicular travel
 - 0.15 m wide curb/gutter
 - 1.5 m wide treed boulevard & street lighting
 - 2.5 m wide paved pedestrian/cycling path
 - 0.85 m wide transition/tie-in
- f. "Road A" (private road), from "Road B" to Blundell Road to be constructed as part of the development (from east to west):
 - 0.85 m wide transition/tie-in
 - 2.5 m wide paved pedestrian/cycling path
 - 1.5 m wide treed boulevard & street lighting
 - 0.15 m wide curb/gutter
 - 10.0 m wide asphalt for vehicular travel
 - 0.15 m wide curb/gutter
 - 1.5 m wide treed boulevard & street lighting
 - 2.5 m wide paved pedestrian/cycling path
 - 0.85 m wide transition/tie-in

3. Special Crosswalk:

Applicant to design and construct a special crosswalk (with flashing beacons, and downward lighting) on Blundell Road at "Road A" (west leg).

4. Vehicle Parking & Loading and Bicycle Parking:

Vehicle parking and loading and bicycle parking to be provided as per requirements noted in Zoning Bylaw Section 7.0 with the exception for the following variance if approved by Council:

Reduce the minimum number of parking spaces required to 0.56 spaces per 100 m² of gross leasable floor area for those portions of the building used for freight forwarding services or warehouse storage services.

Note:

- * 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	 100	Date	-110-17



Development Application Data Sheet

Development Applications Department

DP 11-566011 Attachment 2

Address: 15111 Williams Road and Richmond Key 1095

Applicant: Ecowaste Industries Ltd. Owner: same

Planning Area(s): Fraser Lands

<u> </u>	Existing		Proposed
Site Area:	65.22 ha (161.14 a		me (possible minor road edications via Servicing Agreement.)
Land Uses:	Industrial – active landfill no Francis Road and sorting a processing construction wa Francis Road	nd Indu	strial – closed landfill with industrial logistics park
OCP Designation:	Industrial	Sam	e
Żoning:	Industrial (I)	Sam	e
	Bylaw Requirement	Proposed	Variance
Floor Area Ratio:	1.0 FAR	1.0 FAR max	none permitted

	Bylaw Requirement	Proposed	Variance
Floor Area Ratio:	1.0 FAR	1.0 FAR max	none permitted
Lot Coverage:	Max. 60%	60%	None
Setback – Frontage to Public Roads	Min. 3.0 m	13 m or more	None
Setback – Exterior Side Yard to Public Roads	Min. 0.0 m	3 m	None
Setback – Frontage to Internal Private Roads	N/A	3 m or more	None
Setback – Exterior Side Yard Internal Private Roads	N/A	3 m or more	None
Height (m):	Max. 12 m	13 m as measured from slab finished floor	Variance
Lot Size:	Richmond Key 1095): 53.35 ha (131.8 acres - 15111 Williams Road: 11.87 ha (29.3 acres)	Same (possible minor road dedications via Servicing Agreement.)	None
Off-street Parking Spaces – Regular/Commercial:	TBD at BP stage	TBD at BP stage 0.56 spaces per 100 m ² for freight forwarding services or warehouse storage services	Variance for freight forwarding services or warehouse storage services
Off-street Parking Spaces – Accessible:	TBD at BP stage	TBD at BP stage	None
Bicycle Parking Spaces: Class 1 and Class 2	TBD at BP stage	TBD at BP stage	None



Development Permit

No. DP 11-566011

To the Holder:

ECOWASTE INDUSTRIES LTD.

Property Address:

15111 WILLIAMS ROAD AND RICHMOND KEY 1095

Address:

C/O MR. ANGUS BEATTIE

5TH FLOOR, 595 BURRARD STREET

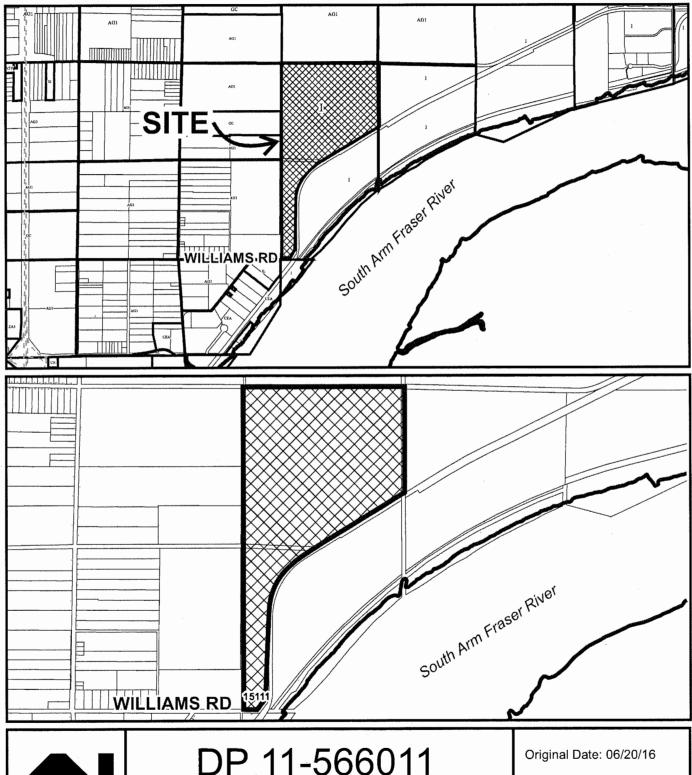
VANCOUVER, BC

- 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. The "Richmond Zoning Bylaw 8500" is hereby varied to:
 - a) Increase the maximum building height from 12.0 m to 13.0 m and that the building height is to be measured from the finished foundation slab and further to apply the Geological Survey of Canada (GSC) datum shown on the phase block plan attached as "Schedule B" as the maximum elevation limits for the tallest point on each building, and;
 - b) Reduce the minimum number of parking spaces required to 0.56 spaces per 100 m² of gross leasable floor area for those portions of the building used for freight forwarding services or warehouse storage services.
- 4. 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 to #17 attached hereto.
- 5. Sanitary sewers, water, drainage, highways, street lighting, underground wiring, and sidewalks, shall be provided as required.
- 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 11-566011

		NO. DP 1	11-56
To the Holder:	ECOWASTE I	INDUSTRIES LTD.	
Property Address:	15111 WILLIA	AMS ROAD AND RICHMOND KEY 1095	
Address:		GUS BEATTIE 595 BURRARD STREET R, BC	
	ons of this Permit m a part hereof.	cloped generally in accordance with the term t and any plans and specifications attached	
AUTHORIZING RESOLUDAY OF ,	JTION NO.	ISSUED BY THE COUNCIL TH	ΙE
DELIVERED THIS	DAY OF	,	
MAYOR			



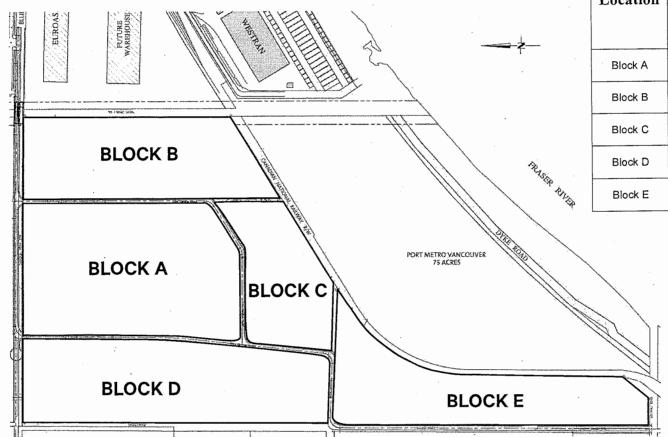




DP 11-566011 SCHEDULE "A"

Revision Date:

Note: Dimensions are in METRES



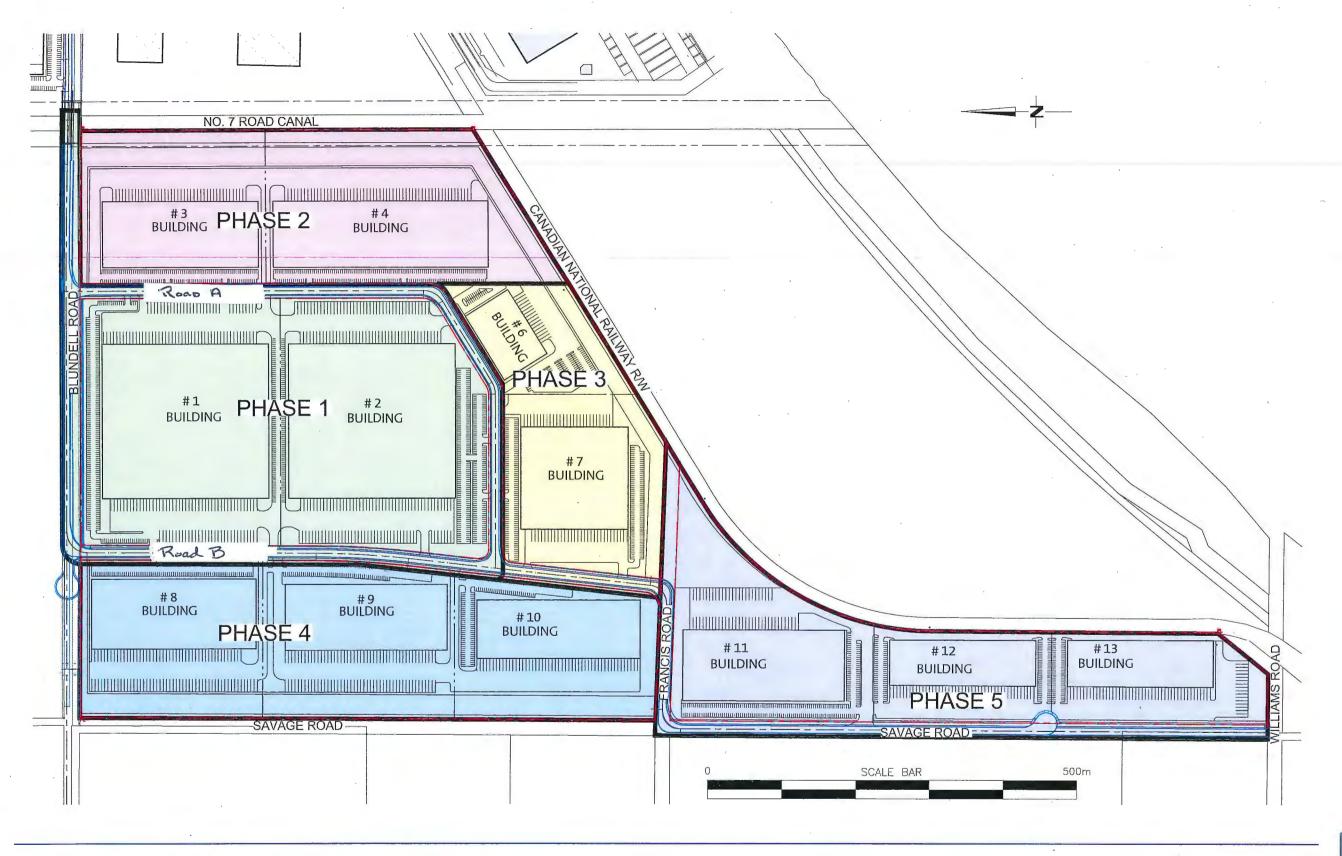
Location	Approximate Finished Grade	Maximum Building Height
Block A	19 m GSC	The lesser of 13 m above slab or 32 m GSC
Block B	18.2 m GSC	The lesser of 13 m above slab or 31.2 m GSC
Block C	18.2 m GSC	The lesser of 13 m above slab or 31.2 m GSC
Block D	18.2 m GSC	The lesser of 13 m above slab or 31.2 m GSC
Block E	6.7 m GSC	The lesser of 13 m above slab or 19.7 m GSC

Richmond Industrial Centre Development







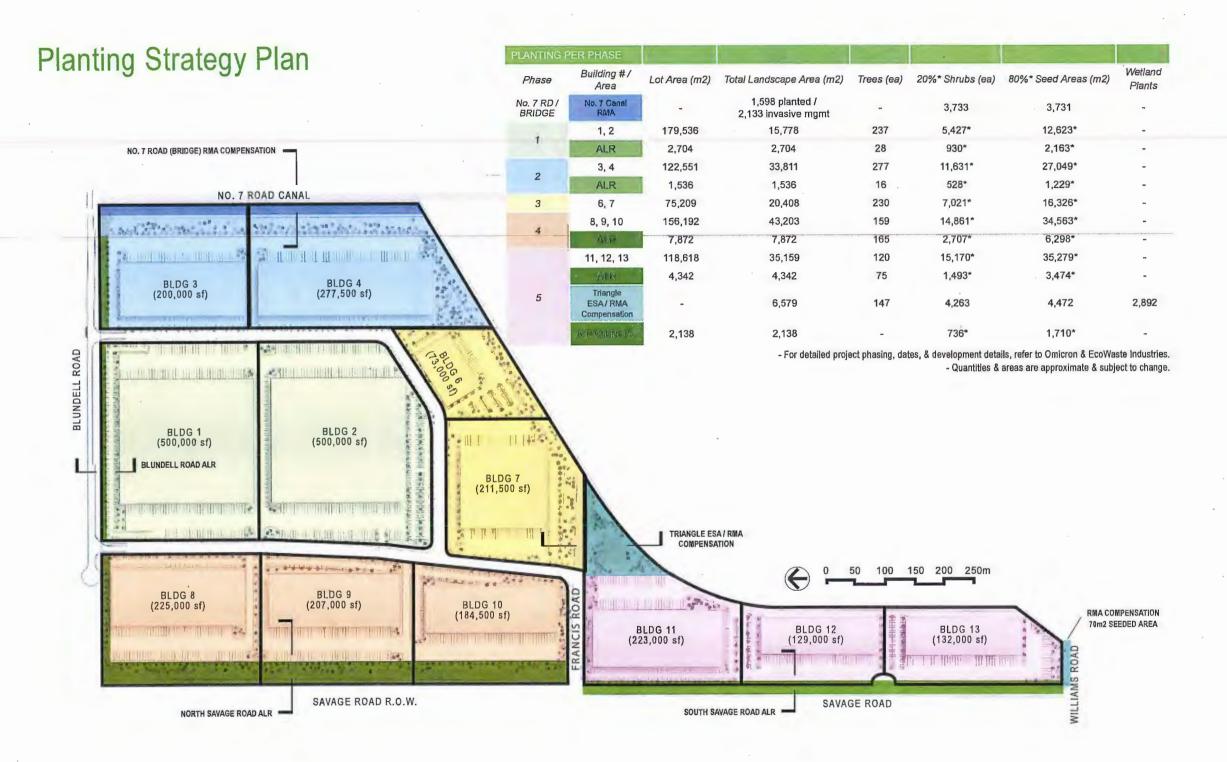


DEVELOPMENT PHASING PLAN

RICHMOND INDUSTRIAL CENTRE DEVELOPMENT
FILE NO. DP 11-566011



Richmond Industrial Centre



RICHMOND INDUSTRIAL CENTRE DEVELOPMENT
FILE NO. DP 11-566011



Richmond Industrial Centre

Proposed Plant Lists - Site & ALR Buffer

REPRESENTATIVE TREE LIST

No.	BOTANIGAL NAVE	COMMON NAME	SIZES & NOTES
1	AMELANCHIER ALNIFOLIA	SERVICEBERRY	MIXED 7, 10 POTS
2	BETUAL NIGRA	RIVER BIRCH	MIXED 7, 10 POTS
3	CRATAEGUS SPP.	HAWTHORN	MIXED 7, 10 POTS
4	MALUS FUSCA	PACIFIC CRAB APPLE	MIXED 7, 10 POTS
5	PICEA SPP	SPRUCE	MIX 1.2 - 2.5M HT
6	PINUS CONTORTA	SHORE PINE	MIX 1.2 - 2.5M HT
7	PRUNUS EMARGINATA	BITTER CHERRY	MIXED 7, 10 POTS
8	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	MIX 1.2 - 2.5M-HT
9	ROBINA PSEUDOACACIA	BLACK LOCUST	MIX 1.2 - 2.5M HT
10	QUERCUS PALUSTRIS	PIN OAK	MIX 1.2 - 2.5M HT

REPRESENTATIVE SHRUBS, GRASSES & SEED LIST

No.	BOTANICAL NAVE	COMMON NAME	SIZES & NOTES
1	ARCTOSTAPHYLOS UVA-URSI	KINNIKINNICK	4" POTS
2	CAREX SPP	SEDGE, VARIOUS	1 POTS
3	FESTUCA SPP	BLUE FESCUE	1 POTS
4	POTENTILLA FRUTICOSA	SHRUBBY CINQUEFOIL	5 POTS
5	PHYSOCARPUS OPULIFOLIUS	NINEBARK	5 POTS
6	RIBES SANGUINEUM	FLOWERING CURRANT	5 POTS
7	ROSA NUTKANA	NOOTKA ROSE	5 POTS
8	RUBUS PARVIFLORUS	SALMONBERRY	5 POTS
9	SALIX HOOKERIANA	HOOKER'S WILLOW	5 POTS
10	SPIREA DOUGLASSII	HARDHACK	5 POTS
11	SYMPHORICARPOS ALBUS	SNOWBERRY	5 POTS
12	NATIVE GRASS AND WILDFLOWER SEED	COASTAL REVEGETATION MIX, SUPPLEMENTED	WITH CAMASSIA & ERYTHRONIUM

Proposed Plant Lists - ESA/RMA Comp.

REPRESENTATIVE TREE LIST

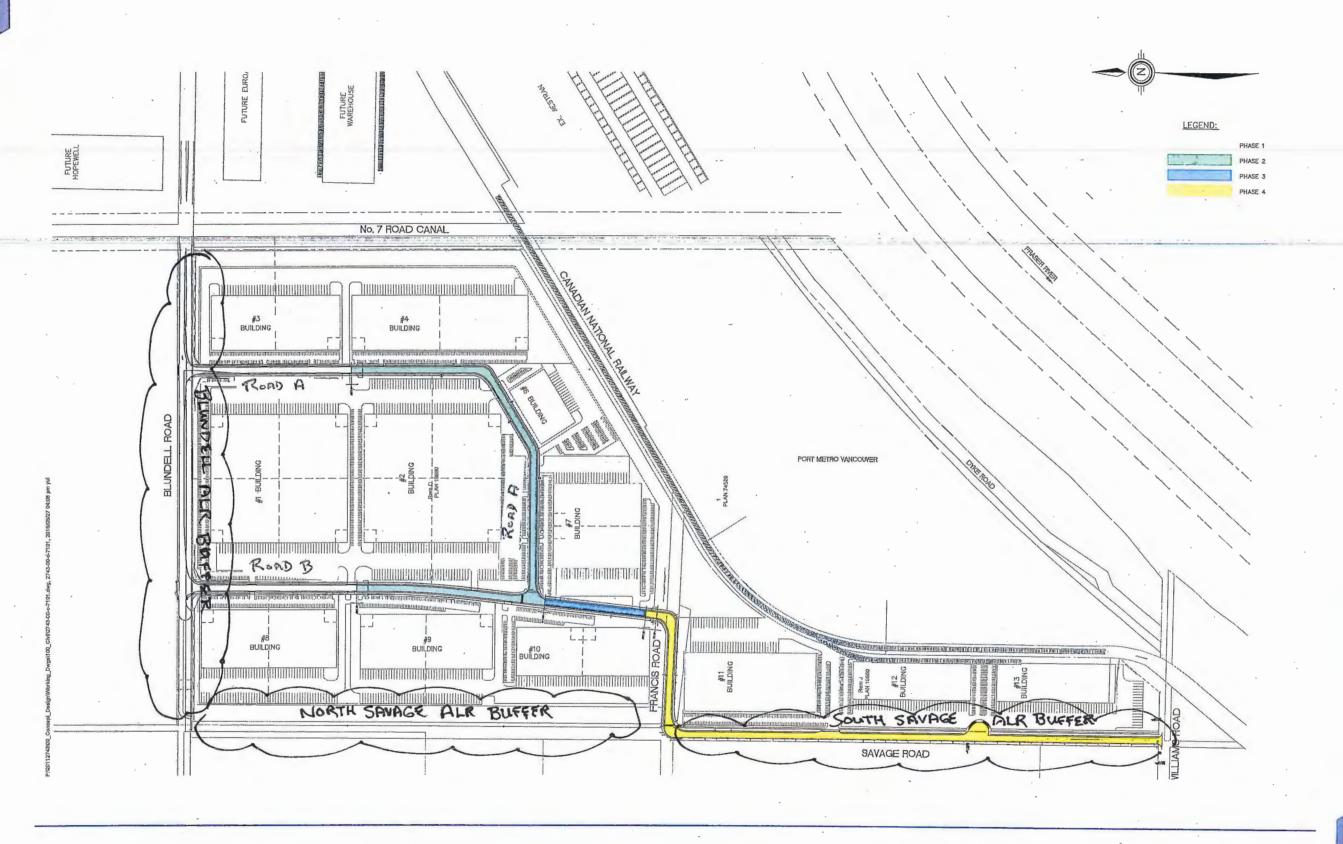
No.	BOTANICAL NAME	COMMON NAME	SIZES & NOTES
1	*RED ALDER	ALNUS RUBRA	MIX 1.2 – 2.5M HT
2	*BLACK COTTONWOOD	POPULUS BALSAMIFERA OR P.TRICHOCARPA	MIX 1.2 – 2.5M HT
3	BITTER CHERRY	PRUNUS EMARGINATA	MIX 1.2 – 2.5M HT
4	*PACIFIC WILLOW	SALIX LUCIDA SSP, LASIANDRA	5POTS
5	*SITKA SPRUCE	PICEA SITCHENSIS	MIX 1.2 – 2.5M HT
6	WESTERN RED CEDAR	THUJA PLICATA	MIX 1.2 – 2.5M HT

REPRESENTATIVE SHRUBS & WETLAND PLANTS

No.	BOTANICAL NAME	EDMMOX NAME	SIZES A NOTES
1	SASKATOON	AMELANCHIER ALNIFOLIA	5 POTS
2	*RED-OSIER DOGWOOD	CORNUS SERICEA OR C. STOLONIFERA	5 POTS
3	PACIFIC NINEBARK	PHYSOCARPUS CAPITATUS	5 POTS
4	*SNOWBERRY	SYMPHORICARPOS ALBUS	5 POTS
5	*THIMBLEBERRY	RUBUS PARVIFLORUS	5 POTS
6	*SALMONBERRY	RUBUS SPECTABILIS	5 POTS
7	HOOKER'S WILLOW	SALIX HOOKERIANA	5 POTS
8	*RED ELDERBERRY	SAMBUCUS RACEMOSA VAR, ARBORESCENS	5 POTS
9	CATTAIL	TYPHA LATIFOLIA	1 POTS
10	SLOUGH SEDGE	CAREX LYNGBYEI	1 POTS
11	*BEAKED SEDGE	CAREX ROSTRATA	1 POTS
12	COMMON RUSH	JUNCUS EFFUSUS	1 POTS
13	HARDSTEM BULRUSH	SCIRPUS LACUSTRIS	1 POTS

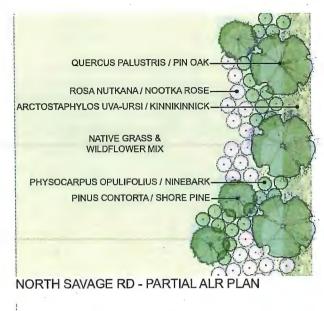
Note: 50% of plants selected should be from those identified with an (*) as per the City of Richmond's Criteria for the Protection of Environmentally Sensitive Areas.

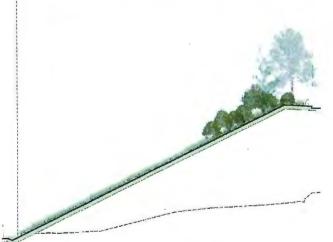
13 2316



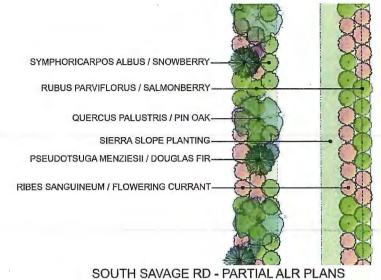
RICHMOND INDUSTRIAL CENTRE DEVELOPMENT





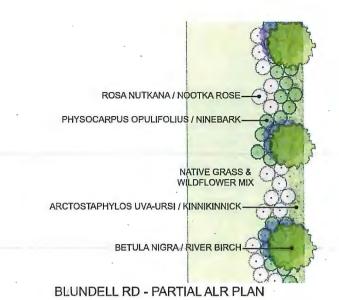


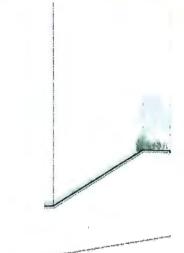
NORTH SAVAGE RD - PARTIAL ALR SECTION





SOUTH SAVAGE RD - PARTIAL ALR SECTIONS





BLUNDELL RD - PARTIAL ALR SECTION

DESIGN INTENT:

THE LANDSCAPE TOPOGRAPHIES OF THE PROPOSED LANDFILL ELEVATIONS ALONG THE ALR CORRIDORS, ACT AS A PHYSICAL & VISUAL BUFFER. IN ADDITION, SCREENING SHRUBS & TREES WILL ALLEVIATE LIGHT SPILL OVER FROM ADJACENT PARKING LOTS. THE PROPOSED PLANT PALETTE IS INSPIRED BY THE SCALE, TEXTURES & HABITAT OF THE REGIONAL LANDSCAPES. THE PLANTING IS INTENDED TO BE SIMPLE & A REPRESENTATION OF THE RURAL GRASSLAND COMMUNITIES & FRASER RIVER ESTUARY, WITH CLUSTERED GROUPINGS OF TREED THICKETS REPRESENTATIVE OF THE AGRICULTURAL HEDGEROWS. RATHER THAN DESIGN A HIGHLY MANICURED, ORNAMENTAL LANDSCAPE THAT REQUIRES IRRIGATION, FERTILIZERS & BURDENS RESOURCES, THE DEVELOPMENT PROPOSES A STRATEGY OF PREDOMINANTLY NATIVE PLANT COMMUNITIES TO MIMIC THE CHARACTER & HABITAT OF THE TRADITIONAL SITE ECOLOGY, THIS DENSITY HAS BEEN CHOSEN TO ALIGN WITH INTENSIVE LANDSCAPE STRATEGIES & OVERALL CHARACTER OF THE DEVELOPMENT & SCREEN BUILDINGS WHERE APPROPRIATE. TREE SPECIES ADD TO THE OVERALL BIODIVERSITY OF THE INDUSTRIAL PARK & WHERE APPLICABLE, ASSIST IN MITIGATING THE HEAT ISLAND EFFECT.

NOTE

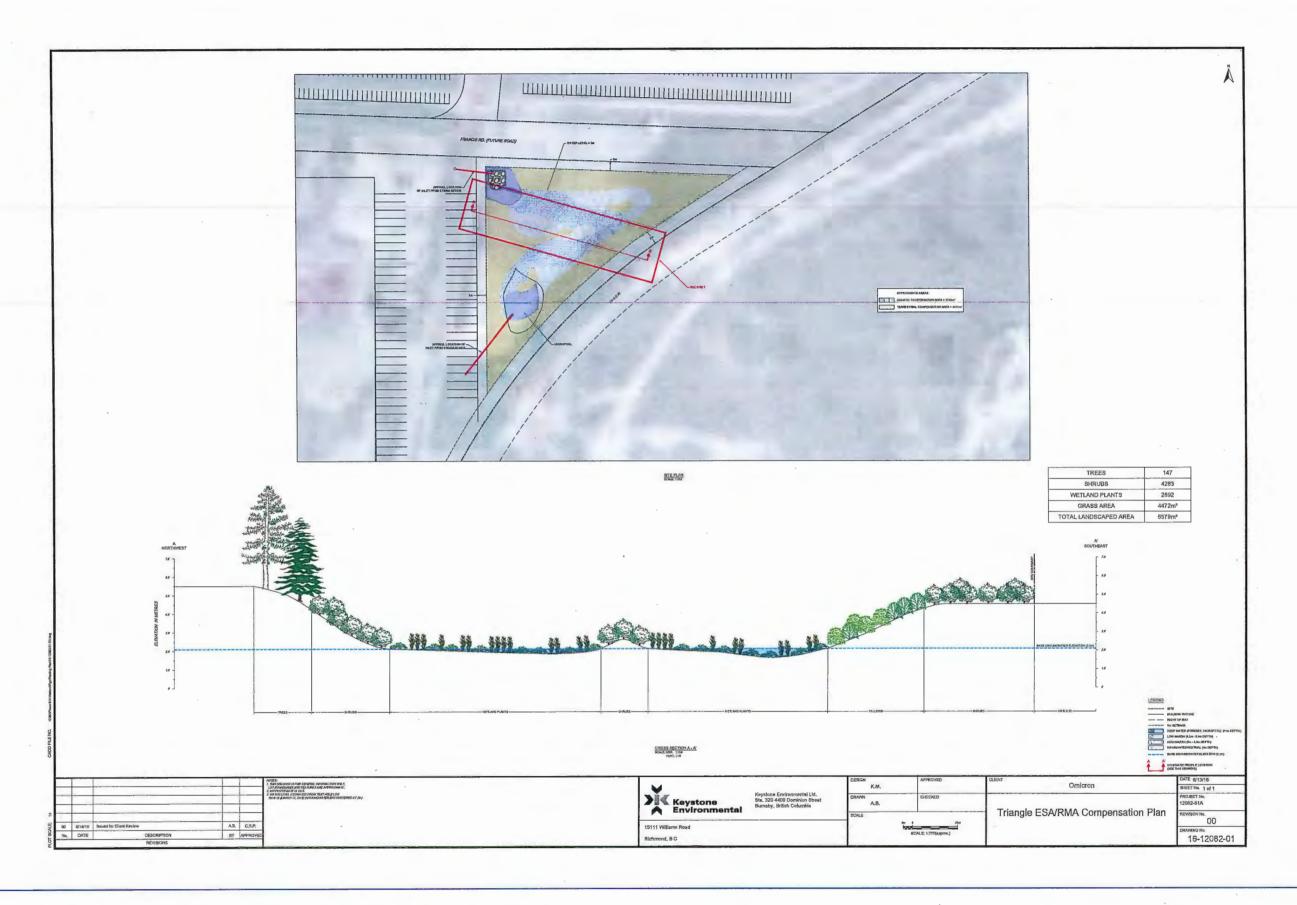
THE ABOVE PLANS ILLUSTRATES PARTIAL AREAS ALONG DESIGNATED, ALR CORRIDORS. FULL PLANT LISTS & QUANTITIES TO BE FURTHER DEVELOPED DURING DETAILED DESIGN.

ALR BUFFER SECTION, PLAN & PLANTING LIST









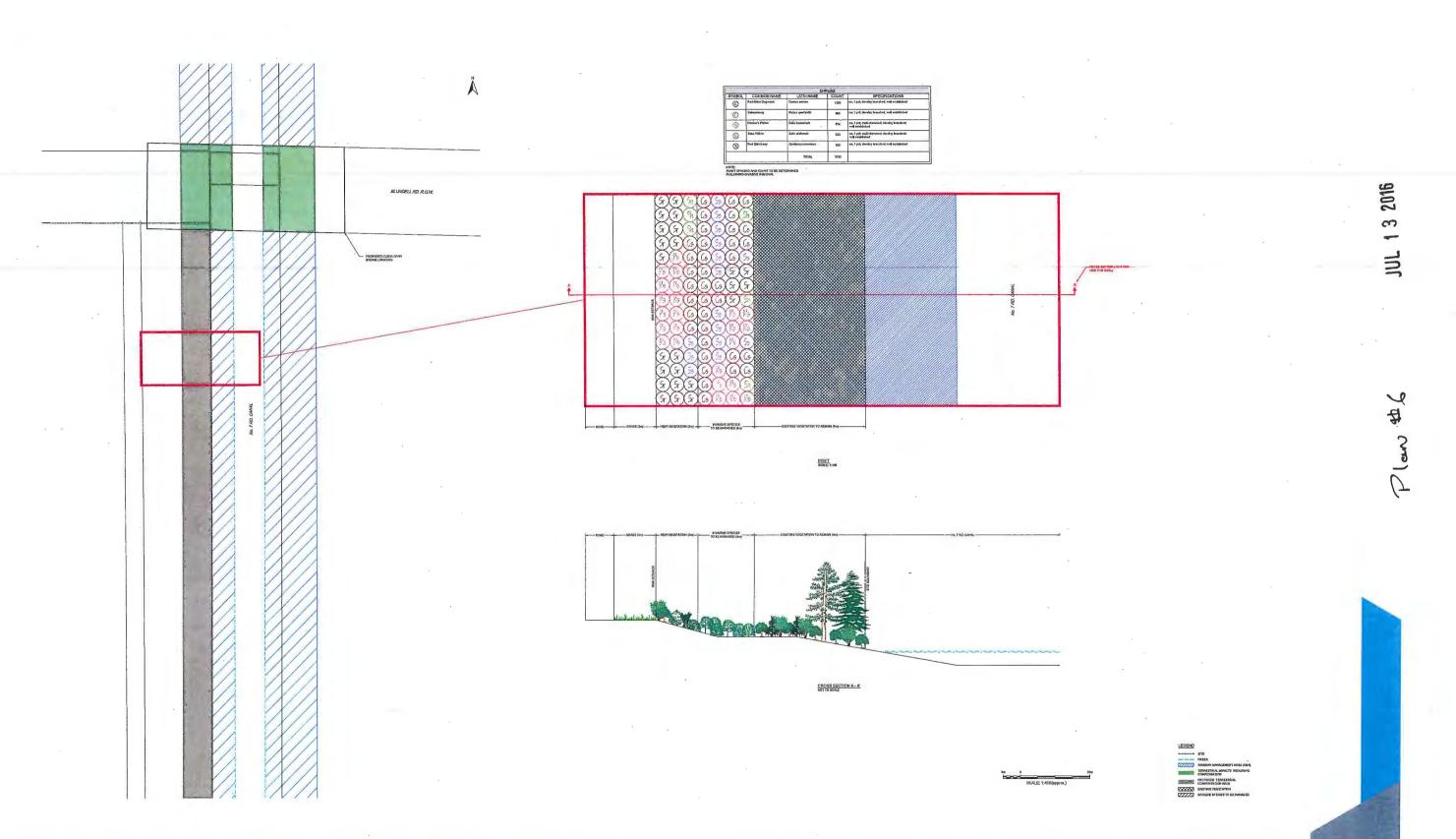
TRIANGLE ESA / RMA COMPENSATION SECTION, PLAN & PLANTING LIST

RICHMOND INDUSTRIAL CENTRE DEVELOPMENT



Richmond Industrial Centre

NP 11-566011



NO 7 RD CANAL RMA COMPENSATION SECTION, PLAN & PLANTING LIST



Richmond Industrial Centre Habitat Balance Sheet and Proposed Compensation

Site / Photo Number		Habitat Type	Lot 1101 (Ecowaste Property)	Lot 1123 (Neighbouring Property)	Road ROWs	Total	Compensation Ratio (Impact to Replacement)	Required Compensation Area	Compensated Like Habitat for Like Habitat	Compensated in Same Ecological Unit
Impa	acted E	SA / RMA Requiring C	ompens	sation (m ²)			(
1	ESA	Freshwater Aquatic	-	480	Savage Rd: 1,600	2,080	2:1	1,040	Yes	No [†]
'	ESA	Riparian Terrestrial	-	2,164	Savage Rd: 205	2,369	2:1	1,185	Yes	No [†]
2a		Freshwater Aquatic	-	45	Savage / Francis Rd: 105	147	2:1	74	Yes ·	No [†]
3a	RMA			-	Williams Rd: 42					
2b	LIVIA	Riparian Terrestrial	-	ed	Savage / Francis Rd: 101	142	2:1	71	Yes	No [†]
3b					Williams Rd: 41	7.7.6.6				
4	ESA	Storm Water Outfall - Brackish Aquatic	-	-	Williams Rd: 75	75	2:1	38	No*	No [†]
5	RMA	No.7 Canal Bridge - Riparian Terrestrial	-	-	Blundell Rd: 732	732	1:1.5	1,098	Yes	Yes
Non	-Impac	ted Areas to be Remo	ved fron	n ESA (m²	2)					
6	ESA	Riparian Terrestrial	6,688	54	Savage / Francis Rd: 5,566	12,308	-	-	-	-
					Required C	ompensatio	n Sub-Total	3,506	- '	-
					+ Additional 25% for Ne	t Benefit / L	ocal Values	4,383	-	-
		ŧ		*	Total Required Ac	uatic Con	npensation	1,440	-	-
					Total Required Terre	strial Con	npensation	2,943	-	-

Site / Photo Number	Location	Compensation Habitat Type	Impacted Habitat Type / Location	Compensation Area	Total Compensation Area	Compensated Like Habitat for Like Habitat	Compensated in Same Ecological Unit
				O	O	0_0	ОЩ
			ESA Lot 1123 and Road ROWs	1,040		Yes	Not
	*	Carelanata Assertia	RMA Road ROWs	74	4.500	Yes	No [†]
		Freshwater Aquatic	ESA Storm Water Outfall	38	1,588	No*	No [†]
7	Ecowaste "Triangle Lot" Constructed Wetland		ESA Additional Net Benefit	436		-	
	Constructed Pretiand		ESA Lot 1123 and Road ROWs	1,185	3,230	Yes	No [†]
		Riparian Terrestrial	RMA Road ROWs	71		Yes	No [†]
			ESA Additional Net Benefit	1,974		-	-
	Williams Road Entrance	Freshwater Aquatic	RMA Additional Net Benefit	32	32	-	-
8	Culvert Removal & Watercourse Restoration	Riparian Terrestrial	RMA Additional Net Benefit	70	70	-	-
	No. 7 Road Canal	D T	RMA No. 7 Road Canal ROWs	1,098	0.00	Yes	Yeş
9	Riparian Restoration	Riparian Terrestrial	RMA Additional Net Benefit	2,633	3,731	-	-
			Total Proposed Aquatic Com	pensation	1,620	-	-
			Total Proposed Terrestrial Com	pensation	7,031	-	-
			Aquatic Net Benefit (1,62	20 - 1,440)	180	-	-
			Terrestrial Net Benefit (7,03	1 - 2,943	4,088	-	

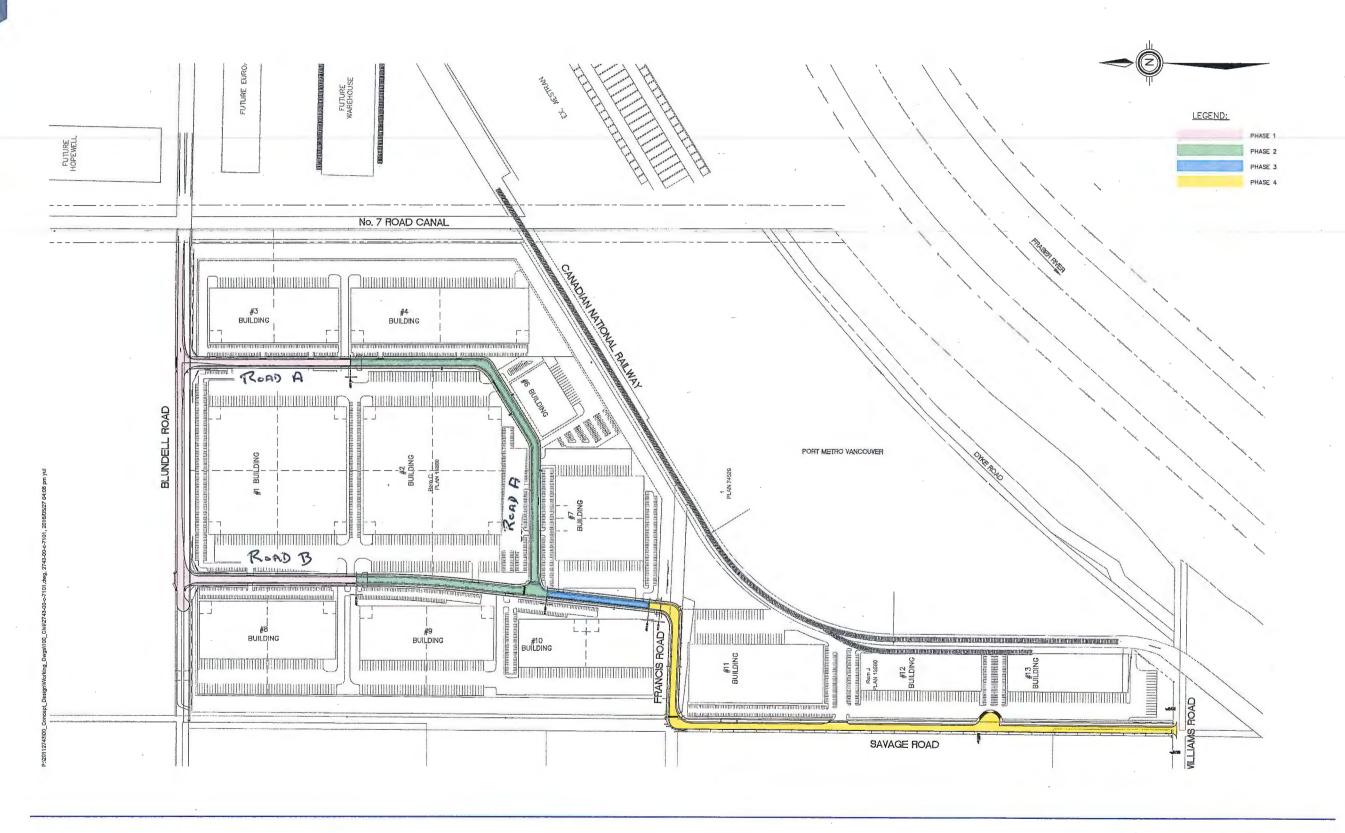
^{*} Brackish intertidal aquatic impacts from the storm water outfall will be compensated as part of the upland constructed wetland (unlike habitat), based on the limited area of impacts and limited value an isolated brackish compensation area would provide.

[†] Compensation habitat will not be located in the same contiguous ecological unit based on the inability to establish compensation areas on the Ecowaste property that maintain direct connectivity to impacted areas beyond the property boundaries. Providing compensation habitat in a concentrated area at >25% of the replacement ration is considered to represent a no net loss of habitat.

cowaste Landsca	pe Data		
ITEM	DESCRIPTION	% OF SITE	TOTAL AREA (m²)
Total Site	Current as per site plan 2015 (site plan development ongoing)	100 %	652,106 m ²
Building Footprint	Includes Total Footprints of Buildings 1 through 13 (site plan development ongoing)	36 %	265,787 m ²
ESA / RMA	No. 7 Road canal habitat compensation area for proposed bridge per Keystone letter dated July 28, 2011.	1.1 %	7,031 m²
ALR	Agricultural Land Reserve Buffers along Blundell, and North and South Savage Rd, as approved in 2014	2.0 %	18,592 m ²
Richmond Zoning	Based on COR Development Permit Guidelines, 3.0m setback	2.3 %	14,998 m²
Additional Landscape	Additional site landscape beyond all regulatory requirements	19 %	123,900 m ²
fotal Landscape	Total landscape area (not including building footprints, parking, loading, and roadways)	24 %	156,505 m ²
econdary Object	ive: Minimum Double the Amount of Required Landscaping Required in the Zoning Bylaw		
ITEM	METHOD	TARGET	PURSUED
1. Rooftop Parking	A) Parking on the roof and equivalent area of intensive landscaping at grade	50 Points	Not Pursued
. Enhanced andscaping by	A) Area is used for local food production, outdoor amenity space, and/or an environmentally sensitive area	50 Points	30 Points
nyone or ombination of a) to	B) Vertical landscaping on at least 50% of the length of walls visible from any highway, public trail, or natural watercourse	30 Points	20 Points
e) methods	C) Tree canopy in the staff and visitor parking area to provide 50% canopy cover in 10 years		
	D) Other methods		
	E) Intensive landscape including native species in the rainwater and detention system, bioswale, or other methos for runoff control	15 Points	15 Points
		Req'd Points = 30	65 Paints







ROAD PHASING PLAN

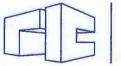
RICHMOND INDUSTRIAL CENTRE DEVELOPMENT FILE NO. DP 11-566011

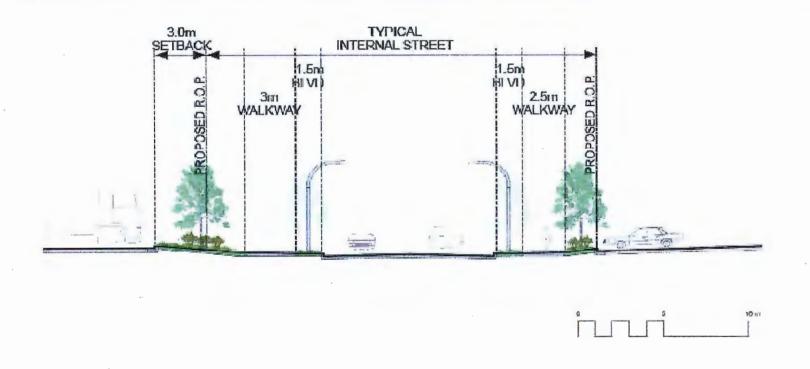


Richmond Industrial Centre

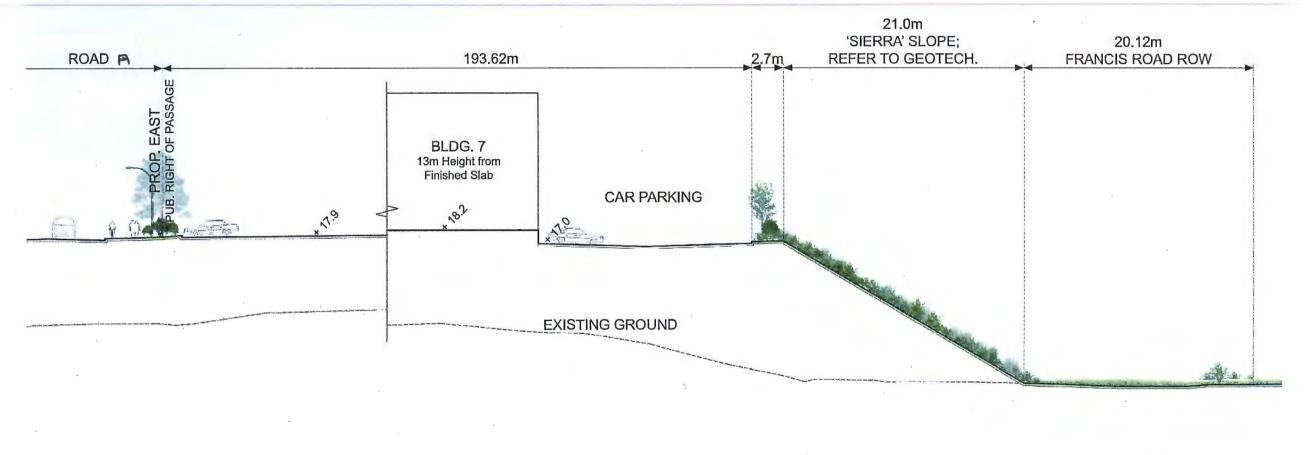




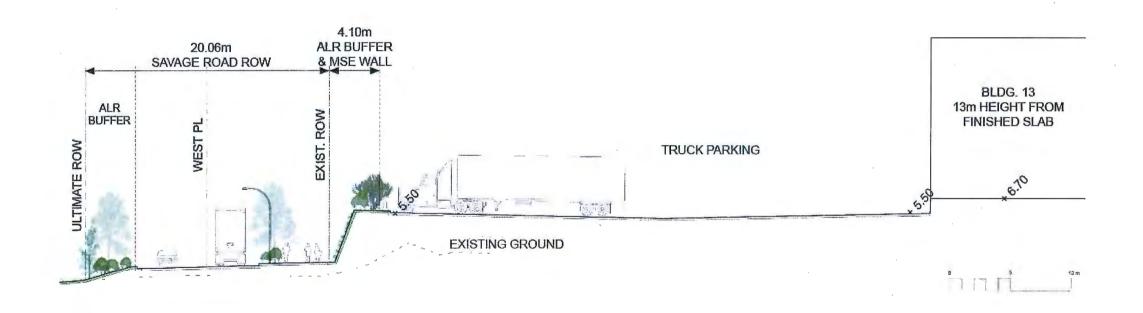








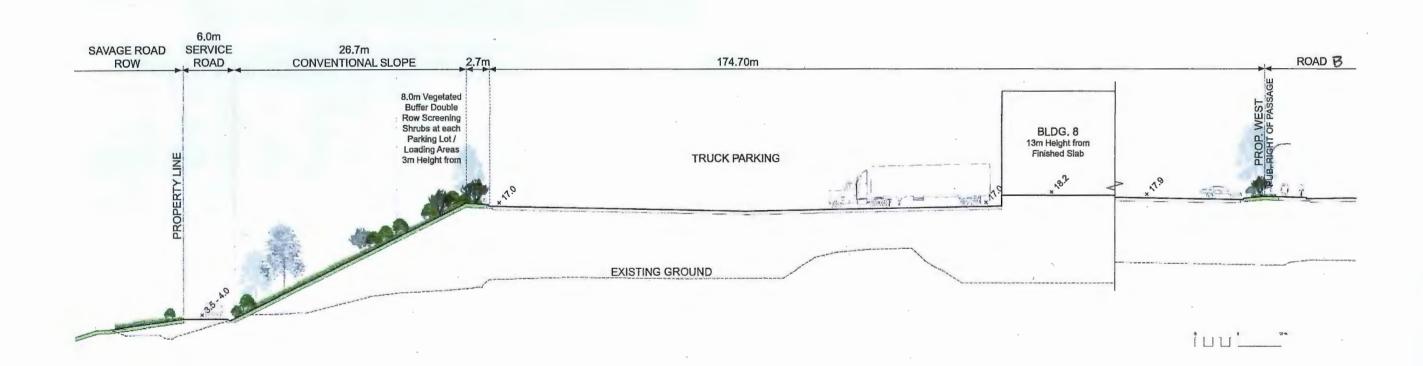
D S 10 m



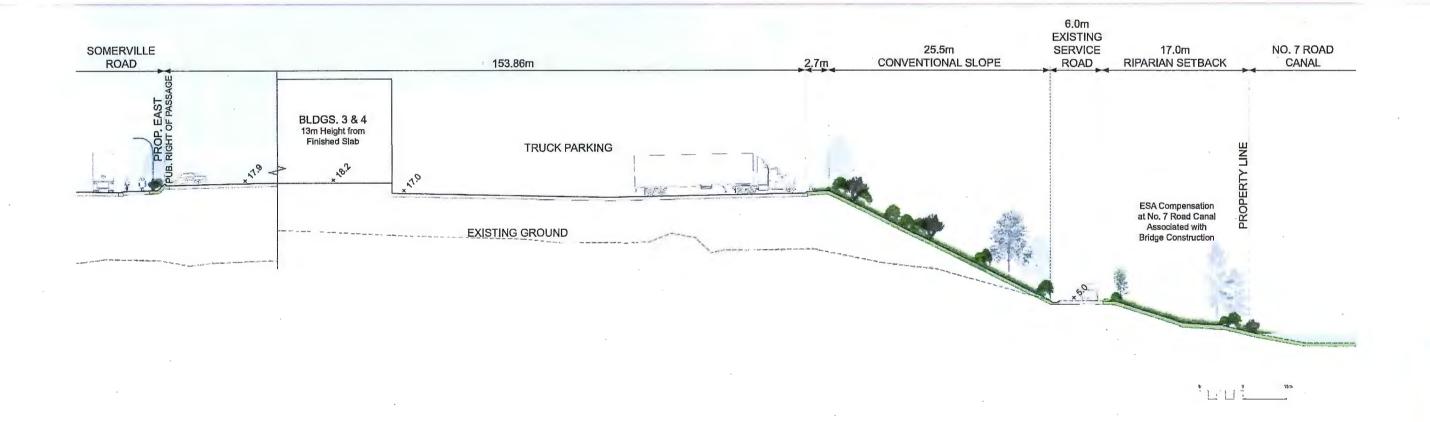




Richmond Industrial Centre



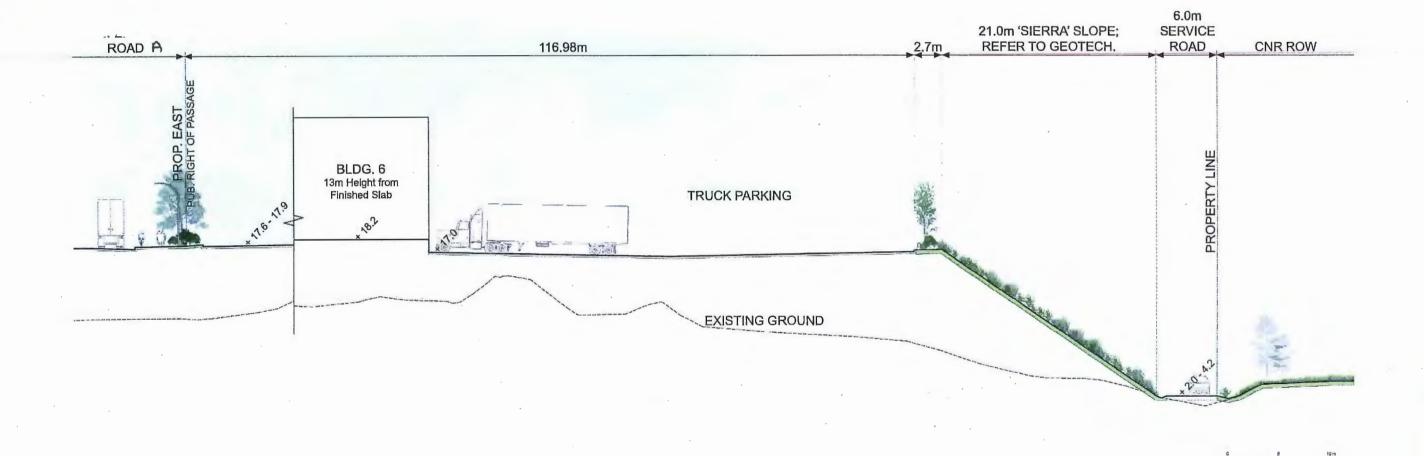




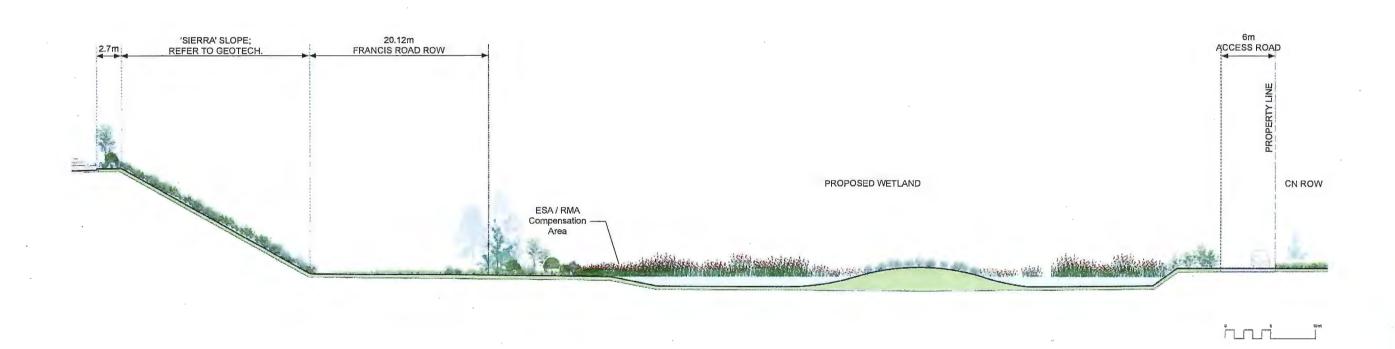
NO. 7 ROAD CANAL
ESA / RMA COMPENSATION AREA

RICHMOND INDUSTRIAL CENTRE DEVELOPMENT









REFERENCE DOCUMENTS





AERIAL VIEW OF DEVELOPMENT LOCATION

RICHMOND INDUSTRIAL CENTRE DEVELOPMENT FILE NO. DP 11-566011





RICHMOND INDUSTRIAL CENTRE DEVELOPMENT FILE NO. DP 11-566011

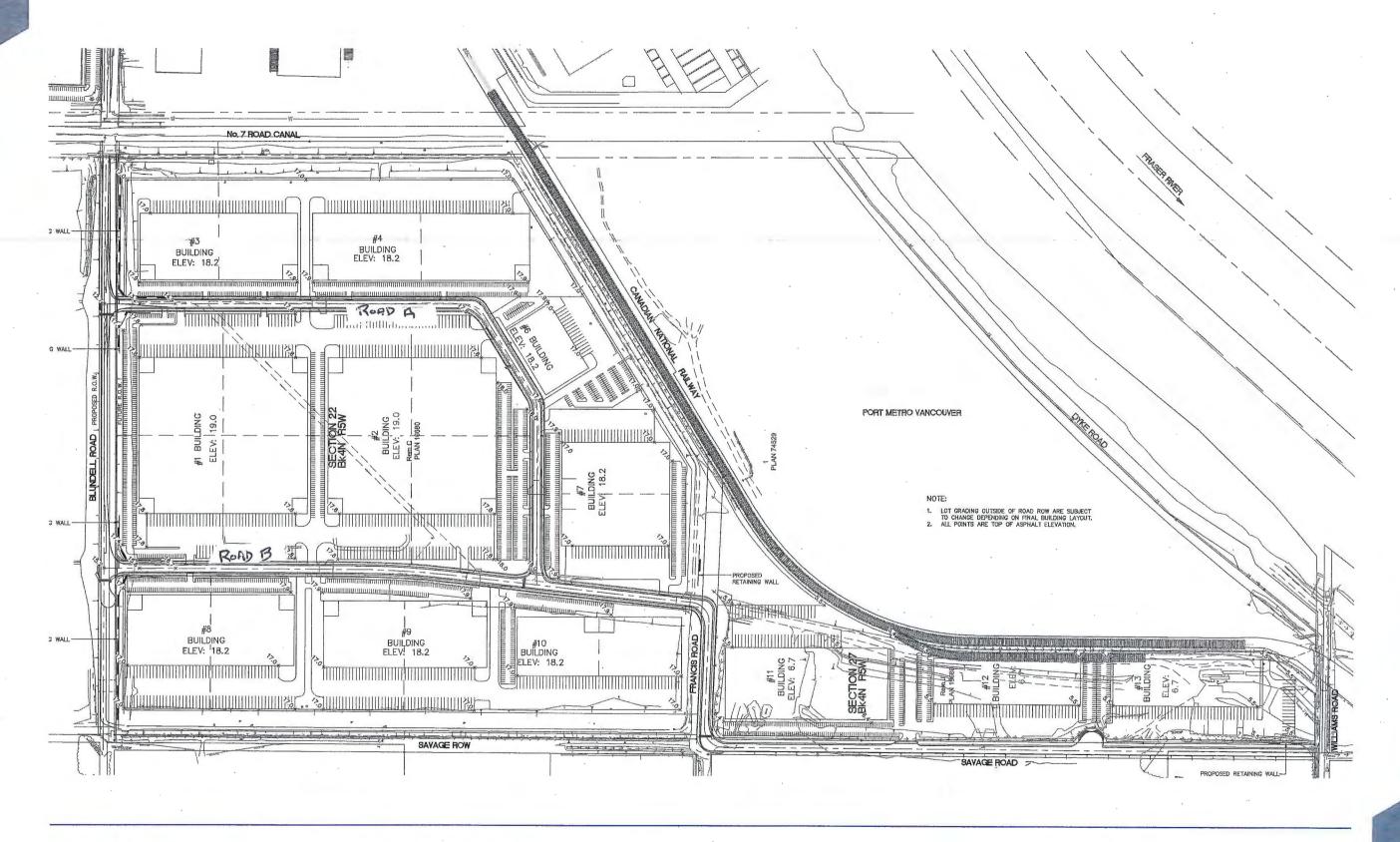




BUILDING ELEVATION — CONCEPTUAL

RICHMOND INDUSTRIAL CENTRE DEVELOPMENT



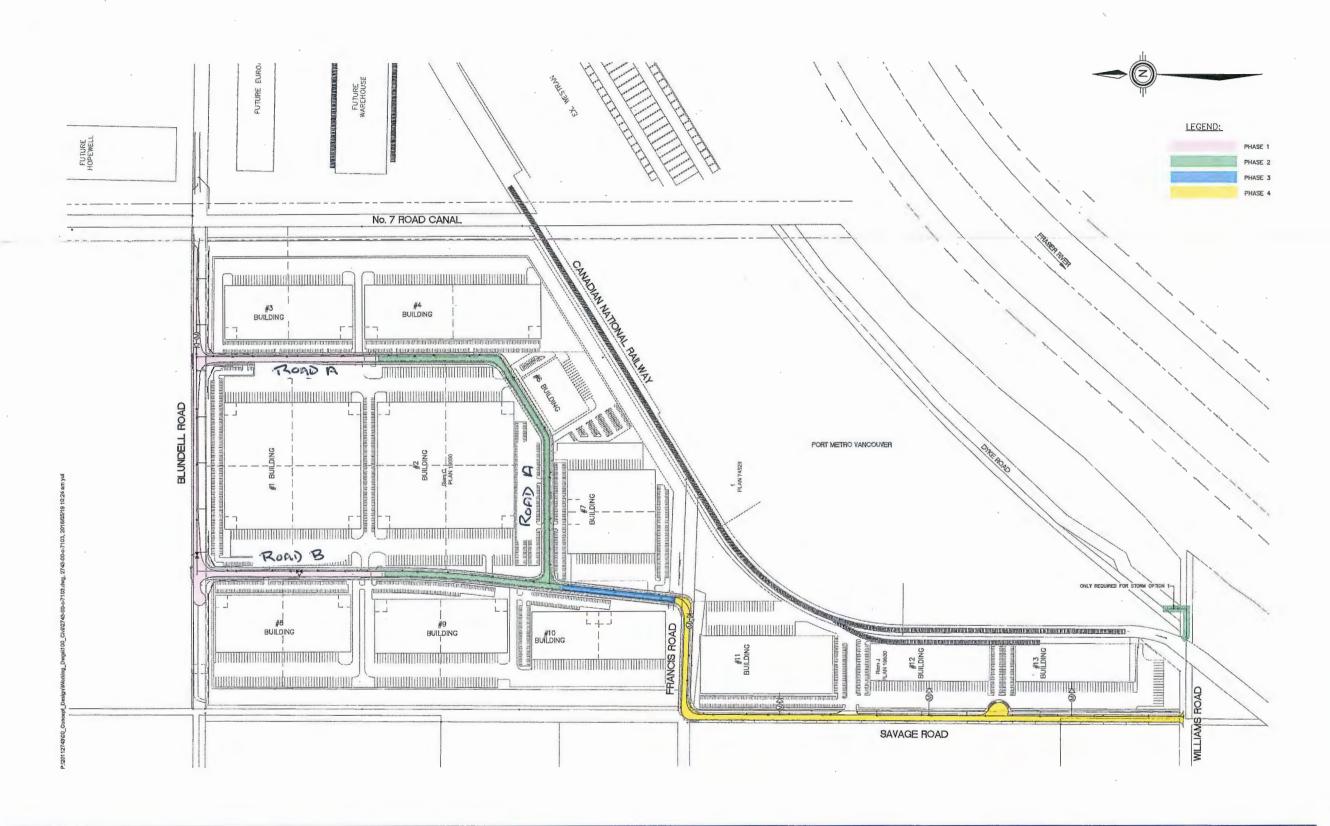


LEGAL SITE PLAN — CONCEPTUAL

RICHMOND INDUSTRIAL CENTRE DEVELOPMENT



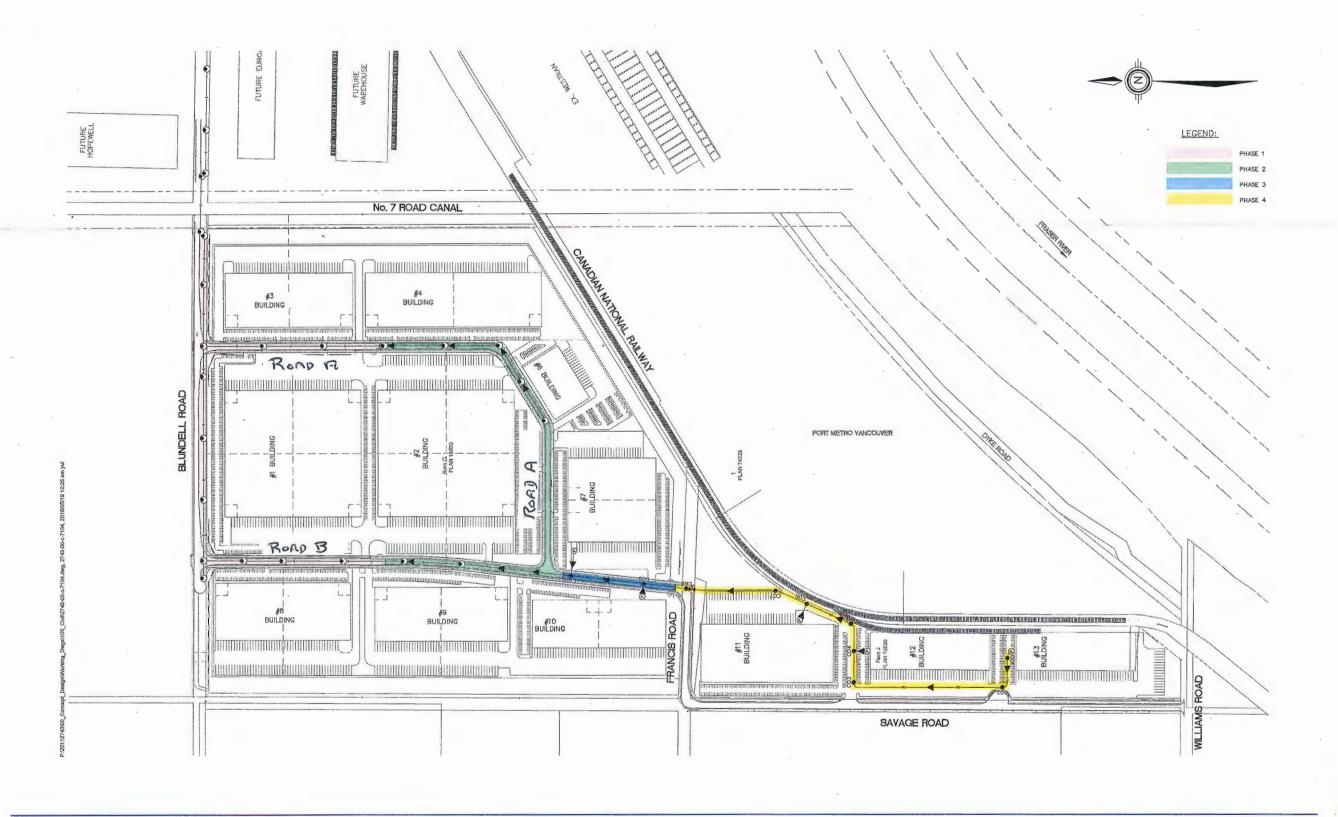
Richmond Industrial Centre



DOMESTIC WATER SERVICING PLAN





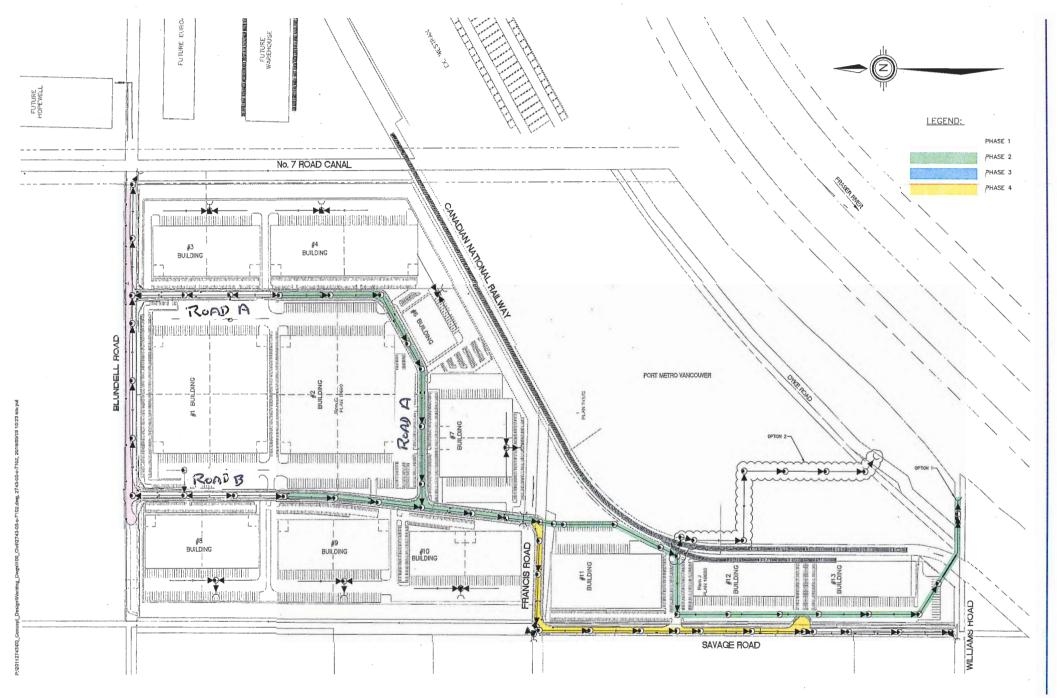


SANITARY SERVICING PLAN

RICHMOND INDUSTRIAL CENTRE DEVELOPMENT



Richmond Industrial Centre

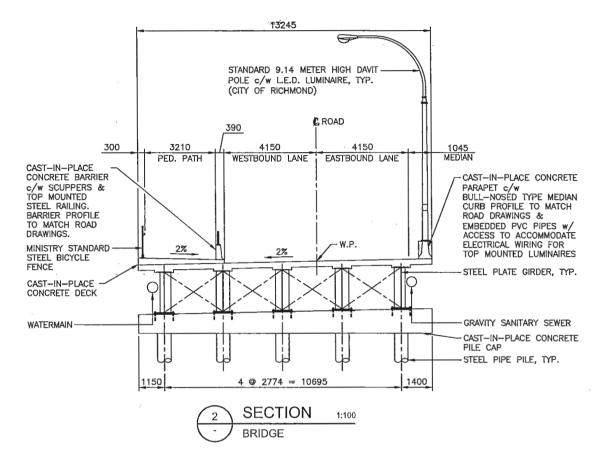


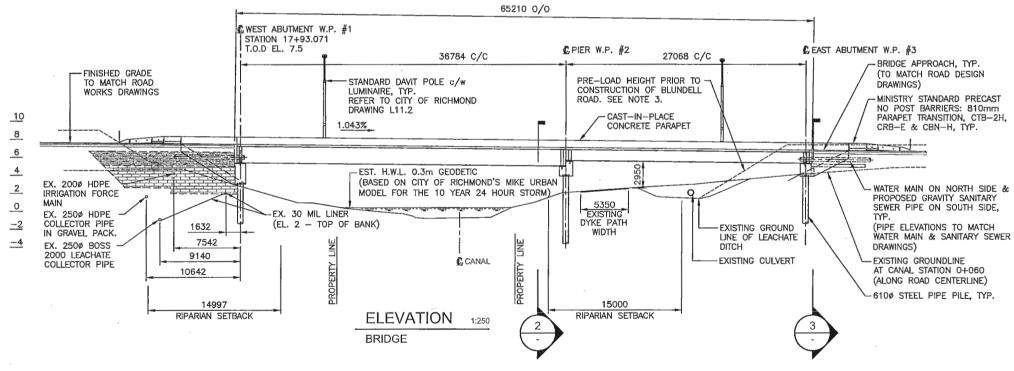
Option 2 is currently being explored as a joint storm / outfall. Once discussions between Port Metro Vancouver, Ecowaste and the City of Richmond have concluded, a decision will be made whether to proceed with Option 1 or 2.





Richmond Industrial Centre















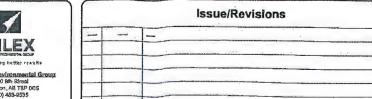
ſ	SHADY	ORIENTATION PLANTS	•	,	
ID	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
1	5%	Alyssium wulfenianum	Alpine Alyssum	4" pot	15" o₊c
2	10%	Ceanothus griseus horizontalis	Creeping California Lilac	4" pot	15" o.c
3	5%	Chamaemelum Nobile	Creeping Chamomile	4" pot	15" o.c
4	10%	Cotoneaster dammeri	Little-Leaf Cotoneaster	4" pot	15" o.c
5	5%	Euonymus fortunei 'Emerald Gaiety'	Emerald Gaiety Euonymous	4" pot	15" o.c
6	15%	Fragaria chiloensis	Beach Strawberry	4" pot	15" o.c
7	5%	Pachistima myrsinites	Mountain Boxwood	4" pot	15" o.c
8	Base	Parthenocissus quinquefolia	Virginia Creeper	#1 pot	24" o.c
9	15%	Rubus calycinoides 'Emerald Carpet'	Creeping Raspberry	4" pot	15" o.c
10	10%	Sempervivum tectorum	Hens and Chicks	4" pot	15" o.c
11	10%	Thymus praecox 'Coccineus'	Creeping Thyme	4" pot	18" o.c
12	5%	Thymus pseudolanugi n osus	Wooly Thyme	4" pot	15" o.c
13	5%	Waldsteinia ternata	Waldesteinia	ै ,4" pot	15" o.c

- 1 PLANTS SHOWN ARE A SUGGESTION, AND SHOULD BE TAILORED TO THE SPECIFIC SITE DESIGNS AND CONDITIONS.
- 2 A MINIMUM OF 8 DIFFERENT PLANT TYPES ARE RECOMMENDED FOR DIVERSITY OF PLANTING ON VEGETATED WALLS.
- 3 ALL PLANT MATERIALS, SOILS, AND INSTALLATION TO MEET OR EXCEED THE BC LANDSCAPE STANDARD, LATEST EDITION.
- 4 FINAL PLANT NUMBERS TO BE DETERMINED BASED ON THE AREA OF WALL FACE, DETERMINED BY SITE SPECIFIC DESIGNS.
- 5 DO NOT USE PLANTS CONSIDERED INVASIVE FOR THE PROJECT LOCATION. ALTERNATE PLANT SPECIES SHOULD BE DETERMINED BY A QUALIFIED PROFESSIONAL.



PRELIMINARY - NOT FOR CONSTRUCTION

Tensar.



	Project Norober	
	Date Draves	_
	Boale	_
	NTS	
	Geolgreed By	
	Drzwn By	_
	+	
	Checked By	_
1	*	

Project Nursber	Project	SIERRA 3H:8V SLOPE	
Dalls Drawn		GENERIC DESIGN	
Boale		OLIVLINO DEGIGIA	
NTS	Sheet Title	SUNNY CONDITION GENERIC	,
Deelgrad By			
Drzen By	41	PLANT LIST	//
+	Drawing Number		1/-
Checked By		*)/: ".









DRAFT

PLANT LIST - SIERRA SLOPE WALL PART SUN CONDITIONS

		SHADY	ORIENTATION PLANTS	:			t
	ID	QTY.	BOTANICAL NAME		COMMON NAME	SIZE	SPACING
	1	10%	Arctostaphylos uva-ursi	1	Kinnikinnick	4" pot	15" o.c
	2	10%	Cotoneaster dammeri		Little-Leaf Cotoneaster	4" pot	18" o.c
	3	10%	Ceanothus griseus horizontalis		Creeping California Lilac	4" pot	15" o.c
	4	10%	Euonymus fortunei 'Emerald Gaiety'		Emerald Gaiety Euonymous	4" pot	15" o.c
	5	15%	Fragaria chiloensis		Beach Strawberry	4" pot	15" o.c
-	6	10%	Galium odoratum		Sweet Woodruff	4" pot	15" o.c
	7	5%	Pachistima myrsinites		Mountain Boxwood	4" pot	15" o.c
	8	Base	Parthenocissus quinquefolia		Virginia Creeper	#1 pot	24" o.c
	9	10%	Polystichum munitum		Western Sword Fern	4" pot .	18" o.c
	10	10%	Rubus calycinoides 'Emerald Carpet'		Creeping Raspberry	4" pot	15" o.c
	11	5%	Thymus pseudolanuginosus		Wooly Thyme	4" pot	15" o.c
	12	5%	Waldsteinia ternata		Waldesteinia	4" pot	15" o.c

- 1 PLANTS SHOWN ARE A SUGGESTION, AND SHOULD BE TAILORED TO THE SPECIFIC SITE DESIGNS AND CONDITIONS.
- 2 A MINIMUM OF 8 DIFFERENT PLANT TYPES ARE RECOMMENDED FOR DIVERSITY OF PLANTING ON VEGETATED WALLS.
- 3 ALL PLANT MATERIALS, SOILS, AND INSTALLATION TO MEET OR EXCEED THE BC LANDSCAPE STANDARD, LATEST EDITION.
- 4 FINAL PLANT NUMBERS TO BE DETERMINED BASED ON THE AREA OF WALL FACE, DETERMINED BY SITE SPECIFIC DESIGNS.
- 5 DO NOT USE PLANTS CONSIDERED INVASIVE FOR THE PROJECT LOCATION. ALTERNATE PLANT SPECIES SHOULD BE DETERMINED BY A QUALIFIED PROFESSIONAL.



PRELIMINARY - NOT FOR CONSTRUCTION

-	_		
-			
-		The state of the s	
-			

Project Number	_
Date Orang	
Beple	
NTS	
Dissigned By	_
Остит Ву	_
-	
Checked By	_

SIERRA 3H:8V SLOPE GENERIC DESIGN PART SUN CONDITION GENERIC PLANT LIST





SIZE

4" pot

4" pot

4" pot

4" pot 4" pot

4" pot 4" pot

4" pot

4" pot 4" pot

4" pot

SPACING

18" o.c

18" o.c

15" o.c

15" o.c

15" o.c 18" o.c

15" o.c 15" o.c

24" o.c

18" o.c 15" o.c





		PLAN'	T LIST - SIERRA SLOPE WALL SHAD	Y CONDITIONS	
		SHAD	Y ORIENTATION PLANTS		
	ID	QTY.	BOTANICAL NAME	COMMON NAME	
Park Carles	1	10%	Blechnum spicant	Deer Fern	
	2	10%	Cotoneaster dammeri	Little-Leaf Cotoneaster	
	3	10%	Fragaria chiloensis	Beach Strawberry	
THE REPORT OF THE PARTY OF THE	. 4	10%	Fragaria Vesca	Woodland Strawberry	
	5	10%	Galium odoratum	Sweet Woodruff	
A STATE OF THE STA	6	10%	Gaultheria shallon	Salaal	
	7	1 5%	Oxalis oregana	Redwood Spurge	
A LA	8	10%	Pachysandra terminalis	Japanese Spurge	
	9	Base	Parthenocissus quinquefolia	Virginia Creeper	
	10	10%	Polystichum munitum	Western Sword Fern	
A C	11-	5%	Waldsteinia ternata	Waldesteinia	

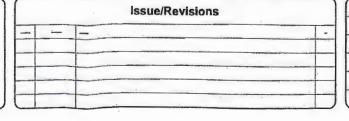
- 1 PLANTS SHOWN ARE A SUGGESTION, AND SHOULD BE TAILORED TO THE SPECIFIC SITE DESIGNS AND CONDITIONS.
- 2 A MINIMUM OF 8 DIFFERENT PLANT TYPES ARE RECOMMENDED FOR DIVERSITY OF PLANTING ON VEGETATED WALLS.
- 3 ALL PLANT MATERIALS, SOILS, AND INSTALLATION TO MEET OR EXCEED THE BC LANDSCAPE STANDARD, LATEST EDITION.
- 4 FINAL PLANT NUMBERS TO BE DETERMINED BASED ON THE AREA OF WALL FACE, DETERMINED BY SITE SPECIFIC DESIGNS.
- 5 DO NOT USE PLANTS CONSIDERED INVASIVE FOR THE PROJECT LOCATION, ALTERNATE PLANT SPECIES SHOULD BE DETERMINED BY A QUALIFIED PROFESSIONAL.



PRELIMINARY - NOT FOR CONSTRUCTION

Tensar

NILEX



Project Number	
 Delis Örwent	
-	
 Scale	_
NTS	
 Deelgred By	
64	. 1
 Drawn By	
-	
Checked By	
*·)

SIERRA 3H:8V SLOPE GENERIC DESIGN

SHADY CONDITION GENERIC PLANT LIST



Report to Development Permit Panel

To:

Development Permit Panel

Date:

June 21, 2016

From:

Wayne Craig

File:

DP 16-727168

Re:

Director of Development

Application by Pritam Samra for a Development Permit at 7311 No. 5 Road

Staff Recommendation

That a Development Permit be issued which would permit the construction of a single-family dwelling with a detached garage on a site with an Environmentally Sensitive Area designation at 7311 No. 5 Road, on a site zoned Agriculture (AG1).

Wayne Craig

Director of Development

DCB:blg

Staff Report

Origin

Pritam Samra has applied to the City of Richmond for permission to develop a single-family dwelling with a detached garage at 7311 No. 5 Road on a 2,023 m² (21,776 ft²) site with an Environmentally Sensitive Area (ESA) designation at 7311 No. 5 Road. The site is zoned "Agriculture (AG1)", and is currently vacant as the previous dwelling was removed.

The site will not require a rezoning as the proposed use conforms to the existing "Agriculture (AG1)" zoning.

Development Information

The development proposal involves the construction of a single-family dwelling with a detached garage and a new driveway. The front 50 m of the site are proposed to be filled to accommodate the 590.34 m² (6,352.2 ft²) house and to address the flood construction elevation requirements. A separate soil fill application is not required where the area of fill is less than 0.2 ha. The rear portion of the lot will be retained at the existing grades, but replacement and upgrading of the existing septic field will encroach into the Environmentally Sensitive Area (ESA) which currently covers approximately half of the site (985 m²).

A detailed report by Keystone Environmental (report dated Jun 8, 2016) indicates that the development project will result in identifiable negative impacts to the environmentally sensitive features on the site over an area of approximately 300 m². A mitigation/compensation plan to address the proposed encroachment is outlined later in this report.

Please refer to the attached Development Application Data Sheet (Attachment 1) 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 and south: Lots of similar size (approximately 1,656 m² to 2,023 m²) all zoned Agriculture (AG1) and containing single-family dwellings.
- On the east side of No. 5 Road: are large (typically 13,100 m² to 30,400 m² sized lots) zoned Agriculture (AG1). These lots are either farmed or tree covered.
- To the west: A heavily treed, 20 m wide, un-opened roadway designated as an Environmentally Sensitive Area (ESA). West of that are large farmed lots (typically 2.73 ha [6.74] in size) zoned "Agriculture (AG1)".

Rezoning and Public Hearing Results

Rezoning is not required for this application as the use conforms to both the Official Community Plan and the existing Agricultural (AG1) zoning.

Staff Comments

The proposed scheme attached to this report has satisfactorily addressed the Environmentally Sensitive Area issues and other staff comments identified as part of the review of the subject Development Permit application.

Zoning Compliance/Variances

The application is in compliance with both the "Agriculture" land use designation in the Official Community Plan (OCP) and to the site's "Agriculture (AG1)" zoning designation. No variances are being requested through this application.

Analysis

Site Planning Issues

The applicant proposes to raise the front of the property slightly above the grade of the adjacent properties to the north and south and a retaining wall system and storm drainage will be required as part of the Building Permit plan submission.

The house, detached garage and driveway are all accommodated within the 50 m maximum setback from No. 5 Road as per the Agriculture (AG1) zone. Compensation planting will be provided.

Arborist Report

An Arborist Report prepared by Arbortech Consulting (report dated February 16, 2016) indicates the presence of 10 bylaw-sized trees on the site and in the vicinity of the proposed residential construction. All of these trees are European Birch species. The report notes that nine (9) of the 10 bylaw-sized trees have pre-existing defects, health constraints, or are considered hazardous and the Arborist has recommended that all nine (9) trees be removed and replacement trees be provided. The City's Tree Preservation Coordinator has concurred with the Arborist's assessment and has noted that the Birch trees have bronze birch borer infestations which have made these trees unsuited for retention.

The Arborist Report also notes that four (4) European Birch trees on the adjacent site to the south are within "influencing distance of the project". These trees have been assessed as in "poor condition". The report recommends that these trees also be removed, subject to the adjacent owner's permission. The applicant has indicated that the adjacent owner has agreed to have these trees removed and the applicant will make an application for tree removal and replacements. A requirement is included in the Development Permit Considerations for submission of an acceptable tree removal permit and replacement securities. The trees must be retained if authorization is not obtained from the adjacent owners.

Biologist Report

An Environmentally Sensitive Area assessment and planting plan was prepared by Keystone Environmental for the site (report dated June 8, 2016).

The report indicates that approximately 49% (985 m²) of the site is currently designated as an Environmentally Sensitive Area (ESA). Detailed ground-truthing by Keystone Environmental indicates that the actual area of sensitive habitat on site (after accounting for invasive species

encroachment and prior impacts from the single family use) is approximately 746 m². The proposed development will encroach into this remaining ESA by approximately 300 m² in order to accommodate the placement of the house, driveway and the septic field. The total ESA area to be retained will be approximately 440 m².

The required compensation planting plan includes approximately 295 native shrubs and 22 trees. The replacement trees include four (4) Paper Birch, two (2) Shore Pine, three (3) Black Hawthorn, and 13 Western Red Cedar. The proposed replacement planting will exceed the Official Community Plan 2 for 1 ratio and will also address a prior tree removal permit replacement requirement of three trees.

The proposed landscaping plan shows that the majority of the planting will occur at the rear of the site supplemented by new planting along the northern property line and the property frontage adjacent to No. 5 Road. Removal of invasive species such as Himalayan Blackberry and Japanese Knotweed are also contemplated in the enhancement plan. The planting report indicates that the total area proposed for planting will be 310 m² exceeding the area of encroachment by approximately 10 m². The proposed ESA response aims to improve the quality of the habitat at this site by retaining higher value vegetation, removing undesirable invasive vegetation and planting enhancement aimed at diversifying the mix of native plants and making the habitat better suited to a wider variety of birds and animals.

The biologist's report outlines a monitoring and maintenance package for both the construction period and post construction that will allow the owner to properly maintain and allow the new plantings to establish. The report recommends an ongoing environmental monitoring period of three years; with annual reporting to the City during that period. Keystone reports that the cost for the plant materials, installation and three years of monitoring will amount to \$5,713.75 The Development Permit Considerations include requirements submission of a landscape security in the amount of \$6,285.13 (including a 10% contingency), submission of a contract with a Qualified Environmental Professional to undertake the three years of monitoring and registration of a legal agreement to ensure that the ESA planting is not removed.

Conclusion

Staff recommend support for the Development Permit application as the proposed planting compensation and enhancement plan adequately addresses and offsets the anticipated impacts to the Environmentally Sensitive Area (ESA) features on the subject site.

David Brownlee

Planner 2

(604-276-4200)

DCB:blg

The following are to be met prior to forwarding this application to Council for approval:

• Receipt of a Letter-of-Credit for landscaping and monitoring over a 3 year period in the amount of \$6,285.13.

- Receipt of a contract with a Qualified Environmental Professional to undertake the 3 year monitoring as outlined in the report by Keystone Environmental dated June 8, 2016.
- Submission of an acceptable tree removal permit and replacement securities for removal and replacement of four (4) off-site trees on the neighbouring lot as identified in the Arbourtech Consulting report dated February 16, 2016.
- Submission of proof that protective fencing has been installed to protect the ESA as indicated on the Planting Plan (Plan #2).
- Registration of an agreement on Title ensuring that the Environmental enhancements will be maintained and not removed.

NOTE: staff to ensure that landscape estimates include a 10% contingency cost.

Prior to future Building Permit issuance, the developer is required to complete the following:

- The applicant is required to obtain a Building Permit for any construction hoarding associated with the proposed development. If construction hoarding is required to temporarily occupy a street, or any part thereof, or occupy the air space above a street or any part thereof, additional City approvals and associated fees may be required as part of the Building Permit. For further information on the Building Permit, please contact Building Approvals Department at 604-276-4285.
- Submission of a construction traffic and parking management plan to the satisfaction of the City's Transportation Department (http://www.richmond.ca/services/ttp/special.htm).
- If applicable, payment of latecomer agreement charges associated with eligible latecomer works.



Development Application Data Sheet

Development Applications Department

DP 16-727168 Attachment 1

Address: 7311 No. 5 Road

Applicant: Pritam Samra and Baljit Samra
Owner: Pritam Samra and Baljit Samra

Planning Area(s): East Richmond

Floor Area Gross: 590.34 m² (6,352.2 ft²)

	Existing	Proposed
Site Area:	2,023 m ²	Same
Land Uses:	Agriculture	Same
OCP Designation:	Agriculture	Same
Zoning:	Agriculture (AG1)	Same
Number of Units:	0 (previous SFD removed)	1

	Bylaw Requirement	Proposed	Variance		
Floor Area Ratio:	Max. 0.6 FAR	0.3	none permitted		
Lot Coverage:	No Maximum	34.1%	None		
Setback - Front Yard:	Min. 6.0 m	More than 6.0 m	None		
Setback – Side Yard:	Min. 1.2 m	1.2 m	None		
Setback – Side Yard:	Min. 3.0 m	3.65 m	None		
Setback – Rear Yard:	Min. 6.0 m	More than 6.0 m	None		
Height (m):	Max. 10.5 m and 2.5 storeys	9.2 m	None		
Lot Size:	820 m ²	2,023 m ²	None		
Flood Construction Elevation	2.9 m GSC	2.475 m GSC	None		
Total off-street Spaces:	2.0	4.0	None		



Development Permit

No. DP 16-727168

To the Holder:

PRITAM SAMRA

Property Address:

7311 NO. 5 ROAD

Address:

7311 NO. 5 ROAD

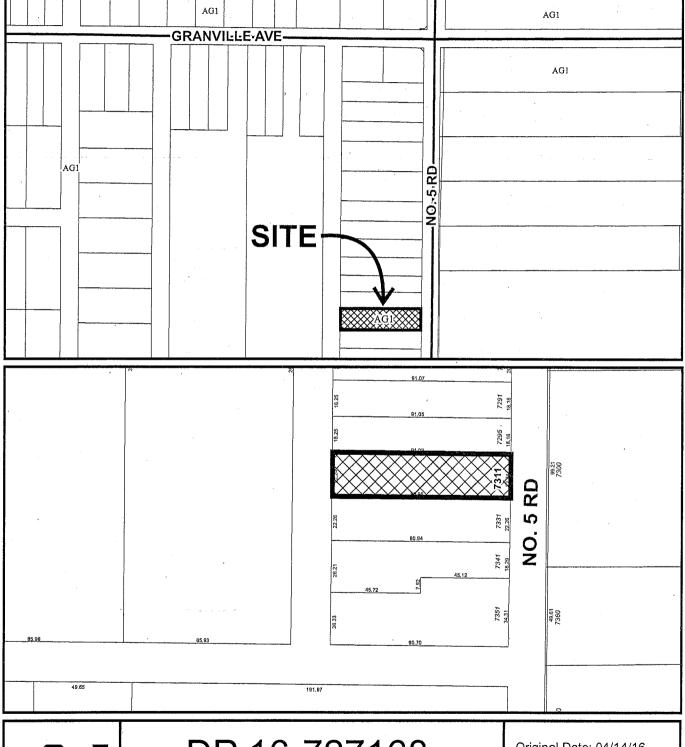
RICHMOND, BC V6Y 2V2

- 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 to #2 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 \$6,285.13 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 three years 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 16-727168

Ic	the Holder:	PRITAM SAM	RA				
Pr	operty Address:	7311 NO. 5 R	DAD				
Ac	ldress:		7311 NO. 5 ROAD RICHMOND, BC V6Y 2V2				
7.		ons of this Permit	oped generally in accordance with the terms and and any plans and specifications attached to this				
	This Permit is not a Bu	uilding Permit.					
	UTHORIZING RESOLUTY OF ,	UTION NO.	ISSUED BY THE COUNCIL THE				
DI	ELIVERED THIS	DAY OF	,				
M.	AYOR						





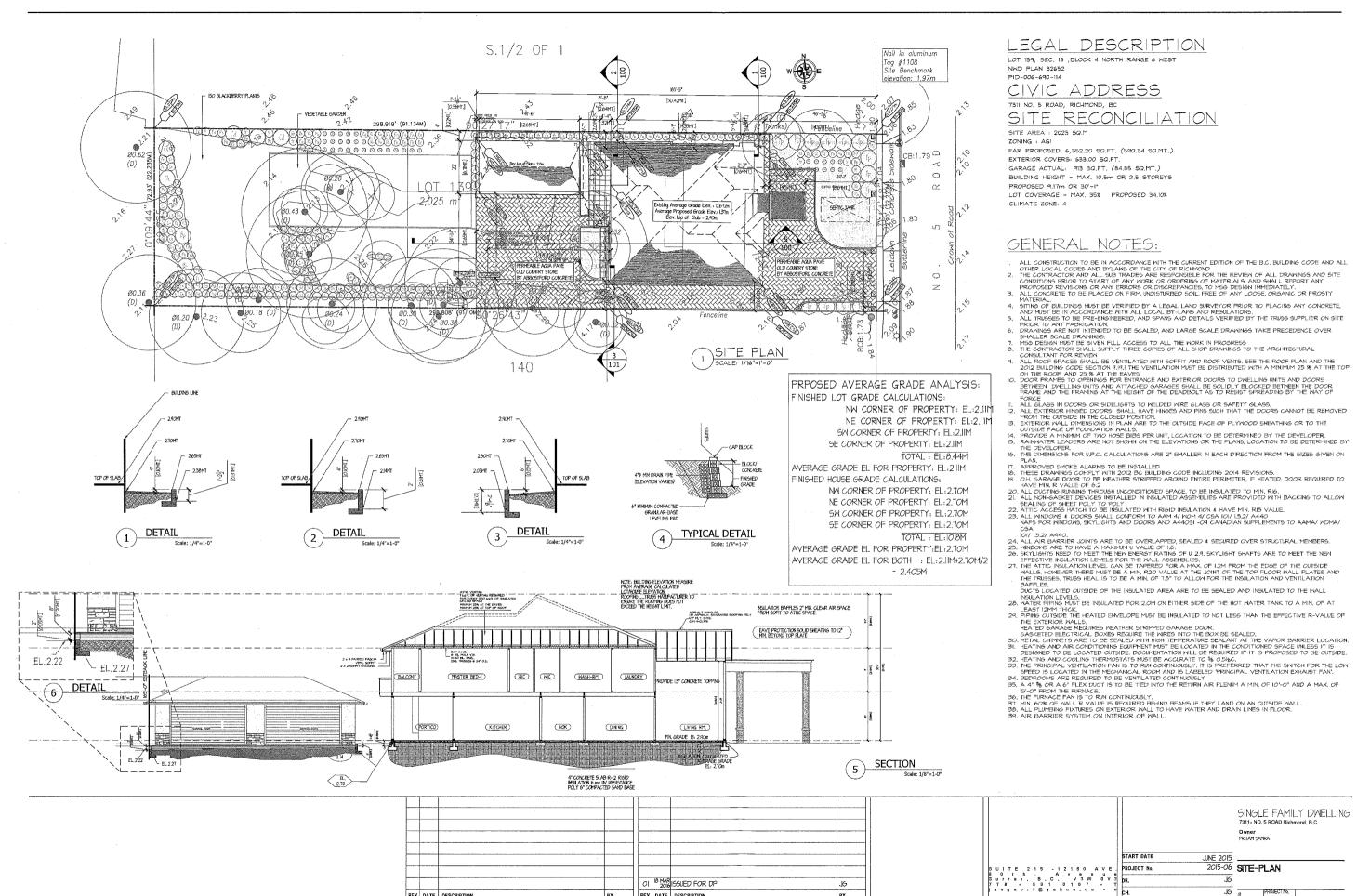


DP 16-727168 SCHEDULE "A"

Original Date: 04/14/16

Revision Date: 05/13/16

Note: Dimensions are in METRES

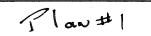


OI 18 MAR ISSUED FOR DP

REV DATE DESCRIPTION

REV DATE DESCRIPTION

JG

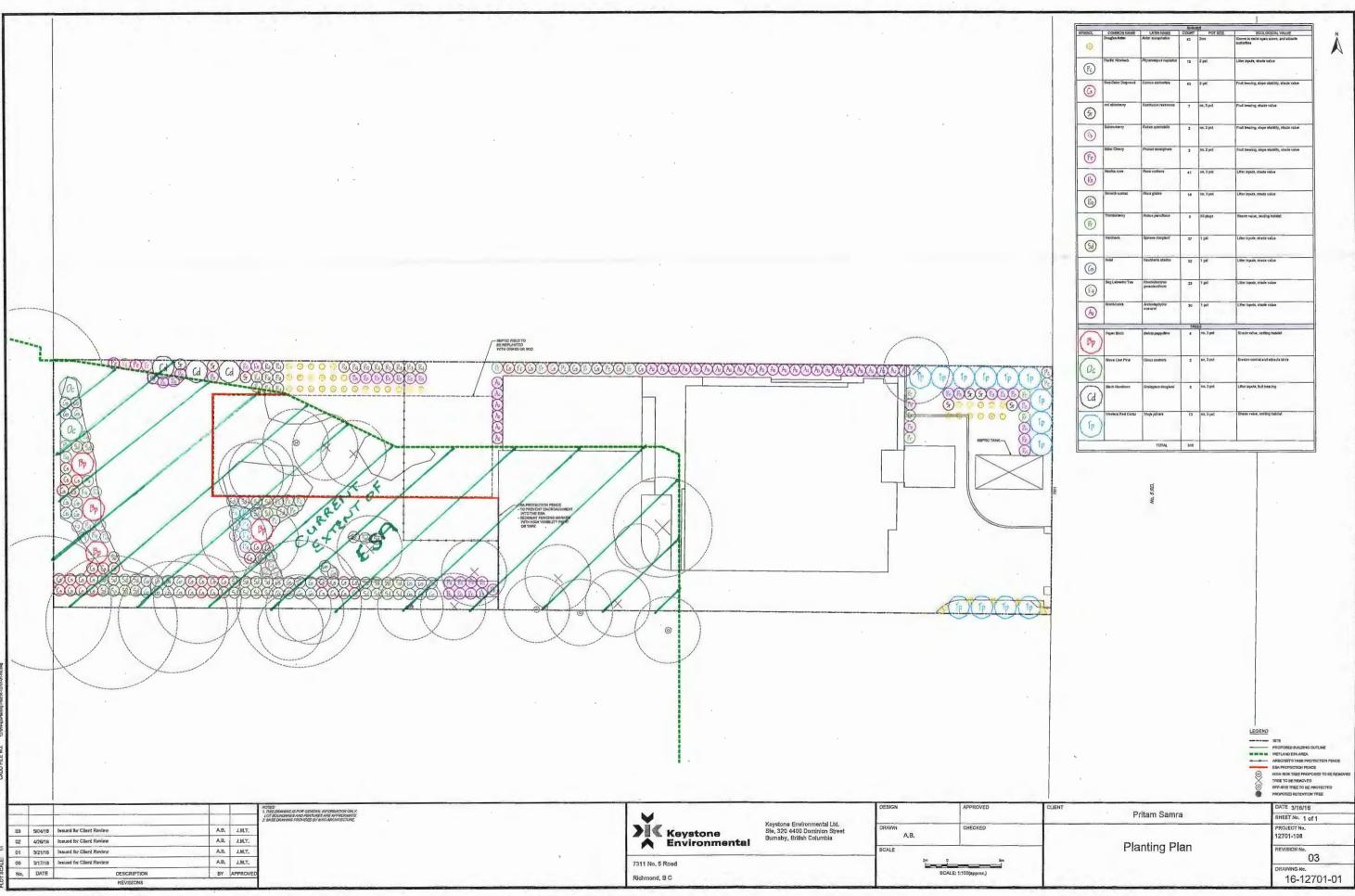


AS SHOWN

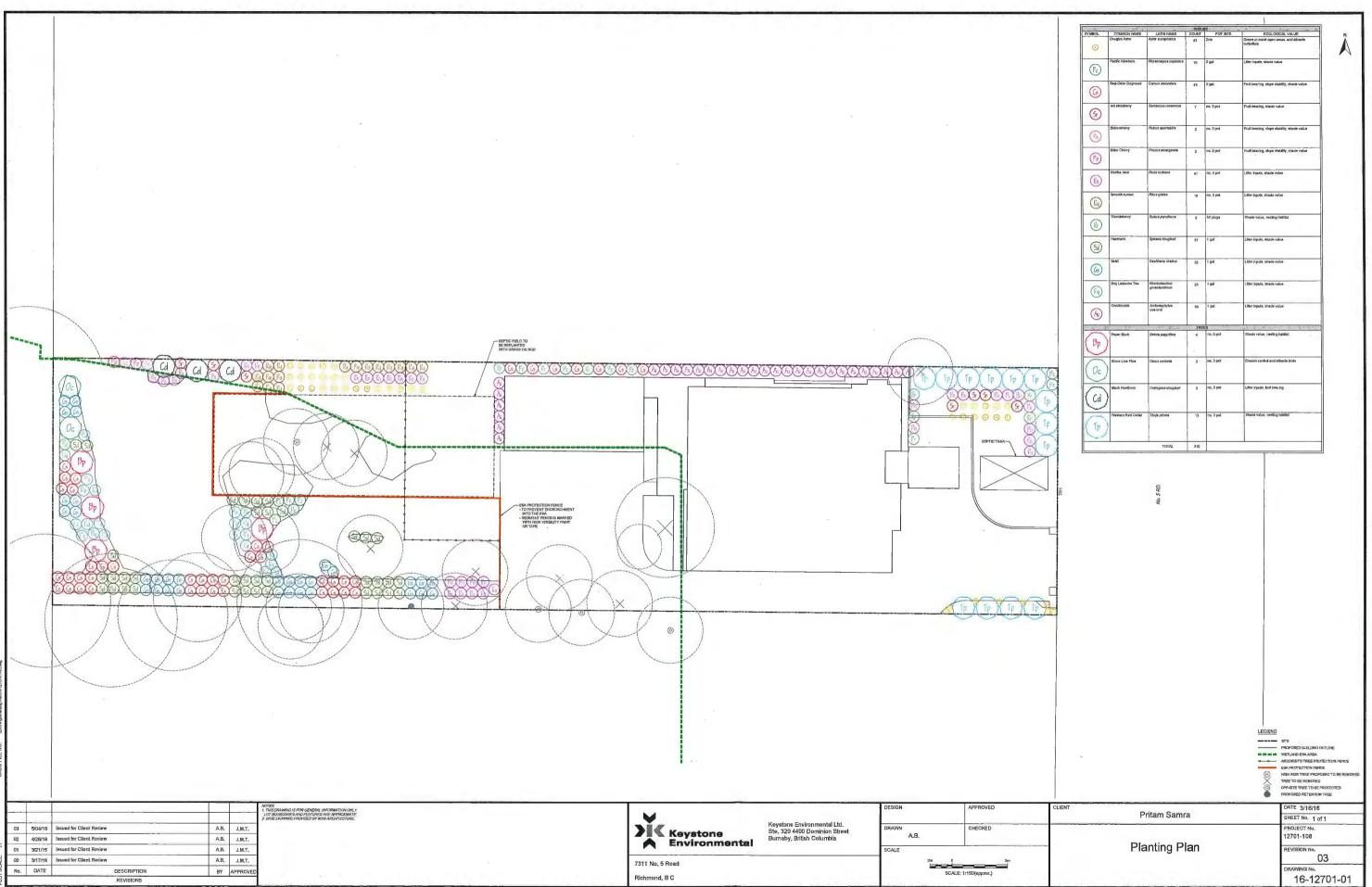
DO NOT SCALE THE DRAWING SCALE

Owner PRITAM SAMRA

SINGLE FAMILY DWELLING 7311- NO, 5 ROAD Richmond, B.C.



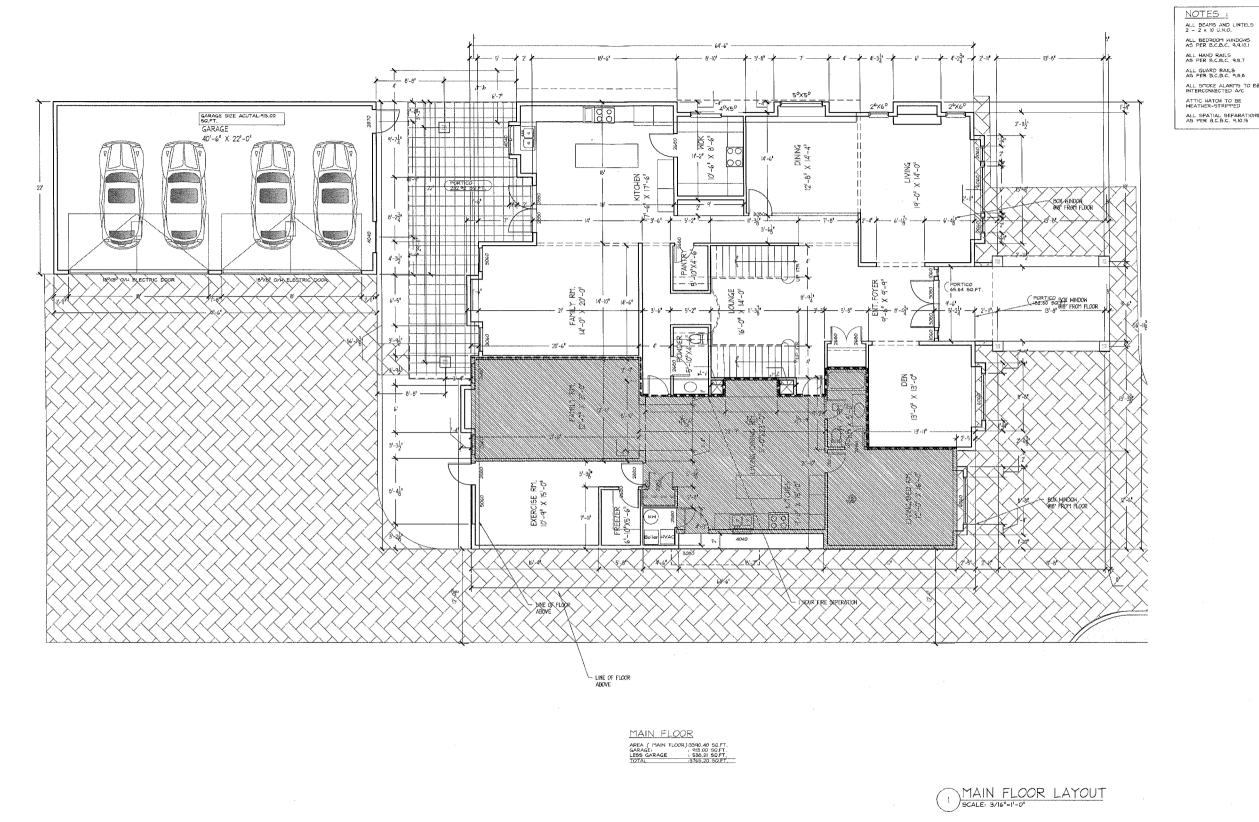
Man # 2a



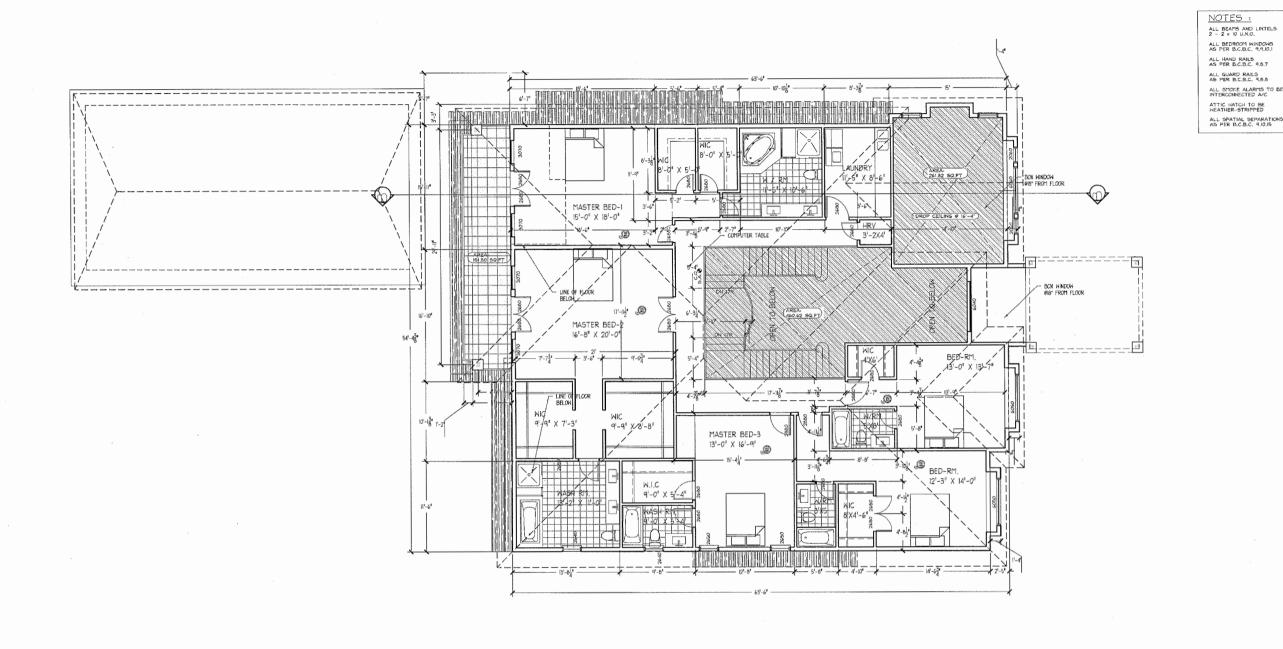
ELEV. 11.63 M







Reference



SECOND FLOOR

AREA (IST FLOOR) : 3404.50 SQ.FT.
LESS STAIR CREDIT : 107.44 SQ.FT.
TOTAL : 7567.86 SQ.FT.

SECOND FLOOR LAYOUT

REY DAT	DESCRIPTION BY	-	8 MAR 2018 ISSUED FOR DP DATE DESCRIPTION	JG BY	SUITE 215 -12160 AV SUITE 215 -12160 AV SUITE 215 -12160 AV TO THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE DRAWIN	PR. DR. CH.	JUNE 2015 2015-06 JG JG AS SHOWN	SECOND-FLOOR PROJECT No. 0 2015-06 A202
								Project Name SINGLE FAMILY DWELLING 7911-NO. 5 ROAD Richmond, B.C. Owner PRITAM SAMFA

Reference