

City of Surrey PLANNING & DEVELOPMENT REPORT Application No.: 7917-0506-00

Planning Report Date: October 16, 2023

PROPOSAL:

- NCP Amendment from Cluster Residential (6-10 upa) to Cluster Residential (10-15 upa)
- **Rezoning** from RA to RM-30
- Development Permit
- Development Variance Permit

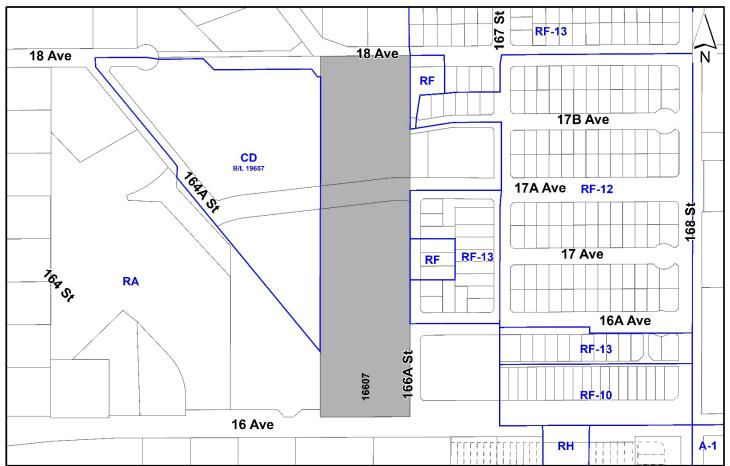
to permit the development of 74 townhouse units.

LOCATION: 16607 16 Avenue

ZONING: RA
OCP DESIGNATION: Urban

NCP DESIGNATION: Cluster Residential 6-10 upa,

Grandview Ridge Trail



RECOMMENDATION SUMMARY

- By-law Introduction and set date for Public Hearing for Rezoning.
- Approval to draft Development Permit for Form and Character, Sensitive Ecosystems, and Hazard Lands.
- Approval for Development Variance Permit to proceed to Public Notification.

DEVIATION FROM PLANS, POLICIES OR REGULATIONS

- Proposing an amendment to the Sunnyside Heights Neighbourhood Concept Plan (NCP) from Cluster Residential 6-10 upa to Cluster Residential 10-15 upa, changes to the road network and Grandview Ridge Trail.
- Proposing to vary the building setback requirements of the RM-30 Zone.

RATIONALE OF RECOMMENDATION

- The proposal complies with the Urban designation in the Official Community Plan (OCP).
- The proposal does not comply with the Cluster Residential 6-10 upa designation in the Sunnyside Heights Neighbourhood Concept Plan (NCP)
- The proposed Neighbourhood Concept Plan (NCP) amendment for the development portion of the site from Cluster Residential 6-10 upa to Cluster Residential 10-15 upa reflects the proposed gross density of 13.75 units per acre, with net density of 46 units per hectare (18.55 units per acre). The proposal meets the 30% open space provision identified in the NCP's Cluster Residential designation and is preserving the most valuable tree cluster in a central location within the site. The NCP allows for the density from the land provided for open space to be transferred to the remaining portion of the development, allowing for the net density of 18.55 to be appropriate for this site.
- The proposal achieves the dedication of the Grandview Ridge Trail in the northwest and southeast portions of the site. The applicant is also proposing to voluntarily convey to the City, at no cost, the lands under the BC Hydro corridor and parkland dedication on the north portion of the site, for a total conveyance of approximately 3.98 acres. The lands under the BC Hydro corridor are designated Habitat Preservation in the Highway No. 99 Corridor LAP.
- The proposed conveyance of the Grandview Ridge Trail area meets the Biodiversity Conservation Strategy (BCS) Green Infrastructure Network objectives for this site.
- The proposal complies with the General Urban designation in the Metro Vancouver Regional Growth Strategy (RGS).
- The proposed density and building form are appropriate for this part of Sunnyside Heights.

- The proposal complies with the Development Permit requirements in the OCP for Sensitive Ecosystems (Streamside Areas/Green Infrastructure Areas).
- The proposal complies with the Development Permit requirements in the OCP for Hazard Lands (Steep Slopes).
- The proposal complies with the Development Permit requirements in the OCP for Form and Character.
- The applicant will provide a density bonus amenity contribution consistent with the Tier 2 Capital Projects Community Amenity Contributions (CACs), in support of the requested increased density.
- The proposed building achieves an attractive architectural built form, which utilizes high quality, natural materials and contemporary lines. The street interface has been designed to a high quality to achieve a positive urban experience between the proposed building and the public realm.
- The Sunnyside Heights NCP was endorsed by Council in 2010. Over the past 10 years, the development trend and market affordability has moved away from a lower density / large townhouse product. The proposed NCP amendment will allow for the creation of smaller, more affordable townhouse units, located near future elementary school (Ta'talu Elementary) and new parkland.

RECOMMENDATION

The Planning & Development Department recommends that:

- 1. A By-law be introduced to rezone a portion of the subject site from "One-Acre Residential Zone (RA)" to "Multiple Residential 30 Zone (RM-30)" and a date be set for Public Hearing.
- 2. Council authorize staff to draft Development Permit No. 7917-0506-00 generally in accordance with the attached drawings (Appendix I) and the finalized Ecosystem Development Plan and Geotechnical Report.
- 3. Council approve Development Variance Permit No. 7917-0506-00 (Appendix VI) varying the following, to proceed to Public Notification:
 - (a) to reduce the minimum front yard (south) setback of the RM-30 Zone from 4.5 metres to 4.3 metres to the principal building face for Buildings 9 (balcony on Unit 55);
 - (b) to reduce the minimum rear yard (north) setback of the RM-30 Zone from 6.0 metres to 4.5 metres to the principal building face for Buildings 4 and 5.
 - (c) to reduce the minimum side yard (west) setback of the RM-30 Zone from 6.0 metres to 3.0 metres to the principal building face for Buildings 1, 2, and 3; and
 - (d) varying the Zoning By-law to increase the maximum number of risers permitted within the front and side yard setback area from 3 to 4 for Units 24, 25, 32, 41, 45 and 53 and from 3 to 5 for Unit 44.
- 4. Council instruct staff to resolve the following issues prior to final adoption:
 - (a) ensure that all engineering requirements and issues including restrictive covenants, dedications, and rights-of-way where necessary, are addressed to the satisfaction of the General Manager, Engineering;
 - (b) submission of a subdivision layout to the satisfaction of the Approving Officer;
 - (c) resolution of all urban design issues to the satisfaction of the Planning and Development Department;
 - (d) submission of a finalized landscaping plan and landscaping cost estimate to the specifications and satisfaction of the Planning and Development Department;
 - (e) submission of a finalized tree survey and a statement regarding tree preservation to the satisfaction of the City Landscape Architect;
 - (f) the applicant satisfy the deficiency in tree replacement on the site, to the satisfaction of the Planning and Development Department;

- (g) the applicant provide a density bonus amenity contribution consistent with the Tier 2 Capital Projects CACs in support of the requested increased density, to the satisfaction of the General Manager, Planning and Development Department;
- (h) demolition of existing buildings and structures to the satisfaction of the Planning and Development Department;
- (i) submission of an acoustical report for the units adjacent to 16 Avenue Street and registration of a Section 219 Restrictive Covenant to ensure implementation of noise mitigation measures;
- (j) registration of a Section 219 Restrictive Covenant to specifically identify the allowable tandem parking arrangement and to prohibit the conversion of the tandem parking spaces into livable space; and
- (k) Registration of a Section 219 Restrictive Covenant to adequately address the City's needs with respect to public art, to the satisfaction of the General Manager Parks, Recreation and Culture and with respect to the City's Affordable Housing Strategy and Tier 1 Capital Project CACs, to the satisfaction of the General Manager, Planning & Development Services.
- 5. Council pass a resolution to amend the Sunnyside Heights Neighbourhood Concept Plan (NCP) to redesignate the land from Cluster Residential 6-10 upa to Cluster Residential 10-15 upa, and to modify the local road network and Grandview Ridge Trail when the project is considered for final adoption.

SITE CONTEXT & BACKGROUND

Direction	Existing Use	NCP Designation	Existing Zone
Subject Site	Single Family Residential	Cluster Residential (6-10 upa), Park/Open Space, and Grandview Ridge Trail	RA
North:	Single Family Residential	Low Density Residential (currently under Application 21-0105-00), Medium Density Residential (10-15 upa)	RA, RF-13
West:	Townhouses	Cluster Residential (15-20 upa)	CD (based on RM-30)
South (Across 16 Avenue):	Vacant	Commercial/Business Park	RA
East:	Single Family Residential	Low Density Residential, Medium Density Residential (10-15 upa), Park/Open Space	RF-13, RF, RF- 10

Context & Background

- The subject site is 5.98 acres in size and consists of one property located in the Sunnyside Heights Neighbourhood Concept Plan (NCP) area and partially within the Highway 99 Corridor Local Area Plan (LAP).
- The site is zoned "One-Acre Residential Zone" (RA) and is designated Urban in the Official Community Plan (OCP) and Cluster Residential 6-10 upa, Park/Open Space and Grandview Ridge Trail in the Sunnyside Heights Neighbourhood Concept Plan (NCP) area and Habitat Preservation Area in the Highway No. 99 Corridor Local Area Plan (LAP) area.
- The site is sloping from northeast down to southwest and is slightly impacted by the BC Hydro right-of-way on the southwestern corner of the site. There is a watercourse located along 16 Avenue, which was reviewed within a Sensitive Ecosystem Development Permit.
- The applicant is proposing:
 - o an amendment to the site's designation in the Sunnyside Heights Neighbourhood Concept Plan (NCP) from Cluster Residential 6-10 upa to Cluster Residential 10-15 upa;
 - o to rezone a portion of the site from "One-Acre Residential Zone" (RA) to "Multiple Family Residential (RM-30); and
 - o a Development Permit for form and character to allow the development of approximately 74 townhouse units, a Development Permit for Sensitive Ecosystems for the Biodiversity Conservation Strategy (BCS) corridor and Streamside Setback, and a Development Permit for Hazard Lands (steep slopes).

DEVELOPMENT PROPOSAL

Planning Considerations

	Proposed	
Lot Area		
Gross Site Area:	38,718.7 square metres	
Road Dedication:	6,441.3 square metres	
BC Hydro Corridor:	1,653.2 square metres	
Proposed Park	8,854.8 square metres	
Grandview Ridge Trail	5,613.0 square metres	
Net Site Area:	16,156.4 square metres (3.99 acres)	
Number of Lots: 1		
Building Height: 11.5 metres		
Unit Density: 18.55 units per acre		
Floor Area Ratio (FAR): 0.7		
Residential Units:		
3-Bedroom:	11	
4-Bedroom:	63	
Total:	74	

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Referrals

Engineering: The Engineering Department has no objection to the project

subject to the completion of Engineering servicing requirements as

outlined in Appendix II.

School District: The School District has advised that there will be approximately 64

of school-age children generated by this development, of which the School District has provided the following expected student

enrollment.

35 Elementary students at Edgewood Elementary School 18 Secondary students at Grandview Heights Secondary School

(Appendix III)

Note that the number of school-age children is greater than the expected enrollment due to students attending private schools, home school or different school districts.

To support further enrolment growth in this area, a new Ta'Talu Elementary School, located at 1970 165A street is targeted to open in the Fall of 2025.

The applicant has advised that the dwelling units in this project are expected to be constructed and ready for occupancy by Fall 2026

Parks, Recreation & Culture:

125G Neighbourhood Park is the closest active park which contains temporary amenities (play structures and paths) and is 350 metres walking distance from the development. This park will be expanded with additional land acquisition from the subject application to fully realize the proposed "Park C" in the Sunnyside Heights NCP. Future amenities in the park will be planned and selected through consultation with the community.

Darts Hill Garden Park is the closest park with natural area and is 350 metres walking distance from the development.

Transportation Considerations

Road Network and Infrastructure

- The applicant will be providing the following road improvements to service the subject proposal:
 - Dedication of 16 Avenue to protect for future arterial widening and construction of a multi-use pathway on the north side of 16 Avenue;
 - o Dedication and construction of 17A Avenue to the City's local road standard;
 - Dedication and construction of the south side of 18 Avenue to the City's local road standard; and
 - Dedication and construction of the west side of 166 Street with a multi-use pathway (Grandview Ridge Trail).

Traffic Impacts

- The subject proposal is anticipated to generate approximately one vehicle every one two minutes in the peak hour.
- As part of the Sunnyside Heights NCP, an area-wide transportation impact assessment ("TIA") was conducted to assess cumulative traffic impacts of redevelopment of the NCP area and to inform the required transportation infrastructure improvements. As a result, a site-specific TIA was not required as part of the subject application and the site-generated traffic did not meet the City's requirement threshold.

Access and Parking

- The applicant is proposing to access the subject site via 17A Avenue and 166A Street.
- The Zoning Bylaw requires a total of 163 parking spaces to be provided on site. The applicant is proposing to provide 168 parking spaces, exceeding the Zoning Bylaw requirements.

Parkland and Natural Area Considerations

- The subject site is adjacent to the future Grandview Ridge Trail, which is approximately 3,348 square metres. It is consists of a 10 metre width adjacent to 17A Avenue which bisects the site east-west and continues south along the east property line to 16th Avenue. A 20 metre width for the Trail along the west property line to 18 Avenue adjacent to the future park lot is being conveyed to the City without compensation.
- The applicants are also voluntarily conveying the GIN/Hydro Corridor as a lot, without compensation for conservation purposes under the Maximum Safeguarding provision of the DP₃ Sensitive Ecosystem Development Permit Area.
- The setbacks of the adjacent streamside areas do not impact the subject site.

• The applicants are also conveying approximately 8,854 square metres of proposed parkland north of 17A Avenue to comply with the Park/Open Space designation in the Sunnyside Heights Neighbourhood Concept Plan.

POLICY & BY-LAW CONSIDERATIONS

Regional Growth Strategy

• The proposal complies with the "General Urban" designation in the RGS.

Official Community Plan

Land Use Designation

• The proposal complies with the "Urban" designation in the OCP.

Themes/Policies

- The proposal includes units designed to front directly onto public streets to facilitate a safe, welcoming public streetscape and public realm (OCP Policy B4.7).
- The proposal includes housing units that front onto green areas (in this case the GIN Corridor / Grandview Ridge Trail), to increase visibility into those areas and to increase the off-site amenity features for those residences (OCP Policy B4.9, B4.22).

Secondary Plans

Land Use Designation

• The proposal includes an amendment to the Sunnyside Heights Neighbourhood Concept Plan (NCP) from "Cluster Residential 6-10 UPA" to "Cluster Residential 10-15 UPA".

Amendment Rationale

- The Sunnyside Heights NCP was endorsed by Council in 2010. Over the past 10 years, the development trend and market affordability has moved away from lower density townhouses. The proposed amendment will allow for the creation of smaller, more affordable townhouse units geared to young families, across the street from the future elementary school.
- The proposed Neighbourhood Concept Plan (NCP) amendment for the development portion of the site from Cluster Residential 6-10 upa to Cluster Residential 10-15 upa reflects the proposed density of 46 units per hectare (18.55 units per acre). The proposal meets the 30% open space provision in the NCP's Cluster Residential designation, and preserves the most valuable tree cluster on the site.
- The proposed gross density of 13.75 units per acre is compliant with the maximum 10-15 units per acre that is permitted under the Cluster Residential 10-15 UPA.

- The proposed development will be subject to the Tier 2 Capital Plan Project CACs for proposed density greater than the Secondary Plan (Sunnyside Heights NCP) designation, as described in the Community Amenity Contribution section of this report.
- The applicant will be required to provide a cash contribution to satisfy the proposed Secondary Plan Amendment. The applicable contribution amount will be confirmed prior to Rezoning Final Adoption.

Themes/Objectives

• The proposal is consistent with the NCP guiding principle of creating a community for people to live within proximity to walking and bike riding paths and plenty of green space.

Zoning By-law

- The applicant proposes to rezone the subject site from "One-Acre Residential Zone (RA)" to "Multiple Residential 30 Zone (RM-30)".
- The table below provides an analysis of the development proposal in relation to the requirements of the Zoning By-law, including the "Multiple Residential 30 Zone (RM-30)", streamside setbacks and parking requirements.

RM-30 Zone	Permitted and/or Required	Proposed
Unit Density:	30 units per acre	18.55 units per acrea
Floor Area Ratio:	0.7	0.7
Lot Coverage:	45	35
Yards and Setbacks		
North:	6.0 metres	4.5 metres
East:	4.5 metres	5.3 metres
South:	6.0 metres	4.5 metres
West:	4.5 metres	3.0 metres
Height of Buildings		
Principal buildings:	13 metres	11.5 metres
Accessory buildings:	11 metres	7.9 metres
Amenity Space		
Indoor Amenity:	222 m²	The proposed 237 m ² meets the Zoning By-law requirement.
Outdoor Amenity:	222 m²	The proposed 300 m ² meets the Zoning By-law requirement.
Parking (Part 5)	Required	Proposed
Number of Stalls		
Residential:	148	148

RM-30 Zone	Permitted and/or Required	Proposed
Residential Visitor:	14.8	20
Total:	162.8	168
Tandem (%):		7.4%

Setback Variances

- The applicant is requesting the following variances:
 - (a) to reduce the minimum front yard (south) setback of the RM-30 Zone from 4.5 metres to 4.3 metres to the principal building face for Buildings 9 (balcony on Unit 55);
 - (b) to reduce the minimum rear yard (north) setback of the RM-30 Zone from 6.0 metres to 4.5 metres to the principal building face for Buildings 4 and 5.
 - (c) to reduce the minimum side yard (west) setback of the RM-30 Zone from 6.0 metres to 3.0 metres to the principal building face for Buildings 1, 2, and 3; and
 - (d) varying the Zoning By-law to increase the maximum number of risers permitted within the front and side yard setback areas from 3 to 4 for Units 24, 25, 32, 41, 45 and 53 and from 3 to 5 for Unit 44.
- The variance for the encroachment of the stair risers is the result of the slope of the site and is considered a minor variance within the context of the application.
- The proposed 3.o-metre side yard setback for the proposed buildings are acceptable given that this will be a fronting onto a future lane and/or is a side of unit condition. Landscaping has been proposed in this space for screening and to soften the interface.
- The proposed rear yard (north) will function as a front yard but is considered a rear yard under the Zoning By-law with the front yard being the south portion of the site (determined as the smallest frontage on a street). A reduced setback for street-fronting units located along the Grandview Ridge Trail and road systems will help the development engage the public realm by bringing the buildings closer to the sidewalk. A reduced setback will also encourage neighbourhood interaction and neighbourhood surveillance through 'eyes on the street'.
- The proposed building achieves an attractive architectural built form, which utilizes high quality, natural materials and contemporary lines. The street interface has been designed to a high quality to achieve a positive urban experience between the proposed building and the public realm.
- The site slopes approximately 26 metres from the north to the south of the property. The additional risers are required to respond to the site grading.
- Staff support the requested variances to proceed for consideration.

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Capital Projects Community Amenity Contributions (CACs)

- On December 16, 2019, Council approved the City's Community Amenity Contribution and Density Bonus Program Update (Corporate Report No. R224; 2019). The intent of that report was to introduce a new City-wide Community Amenity Contribution (CAC) and updated Density Bonus Policy to offset the impacts of growth from development and to provide additional funding for community capital projects identified in the City's Annual Five-Year Capital Financial Plan. A fee update has been approved in April 2023, under Corporate Report No.R037, 2023.
- The proposed development will be subject to the Tier 1 Capital Plan Project CACs for the allowable units within the current plan designation of Cluster Residential 6-10 upa. The contribution will be payable at the rate applicable at the time of Final Subdivision Approval. The current rate is \$2,136 per new unit.
- The proposed development will be subject to the Tier 2 Capital Plan Project CACs for proposed density greater than the Secondary Plan designation.
- The applicant will be required to provide the per unit flat rate for the number of units above the approved Secondary Plan in order to satisfy the proposed Secondary Plan Amendment. The contribution will be payable at the rate applicable at the time of Rezoning Final Adoption, the current fee is \$21,360 per unit for townhouses.

Affordable Housing Strategy

- On April 9, 2018, Council approved the City's Affordable Housing Strategy (Corporate Report No. Ro66; 2018) requiring that all new rezoning applications for residential development contribute \$1,068 per new unit to support the development of new affordable housing. The funds collected through the Affordable Housing Contribution will be used to purchase land for new affordable rental housing projects.
- The applicant will be required to register a Section 219 Restrictive Covenant to address the City's needs with respect to the City's Affordable Housing Strategy.

Public Art Policy

• The applicant will be required to provide public art, or register a Restrictive Covenant agreeing to provide cash-in-lieu, at a rate of 0.5% of construction value, to adequately address the City's needs with respect to public art, in accordance with the City's Public Art Policy requirements. The applicant will be required to resolve this requirement prior to consideration of Final Adoption.

PUBLIC ENGAGEMENT

• Pre-notification letters were sent on January 15, 2022 and the Development Proposal Signs were installed on January 26, 2022. Staff received approximately 6 correspondences from general public, all asking for confirmation whether a park is still envisioned on the north portion of the site, which is being provided.

DEVELOPMENT PERMITS

Sensitive Ecosystems (Streamside Areas) Development Permit Requirement

- The subject property falls within the Sensitive Ecosystems Development Permit Area (DPA) for Streamside Areas in the OCP, given the location of an offsite watercourse to the west and a Class B ditch located on the south side of 16 Avenue. Both watercourses require a 7 metre setback as measure from top of bank, which have been achieved through this application.
- An Ecosystem Development Plan, prepared by Ian Whyte, P.Ag. of Envirowest Consulting Ltd. and dated September 1, 2023, and peer reviewed by Alexander Drake of Enkon Environmental Ltd., and found to be generally acceptable. The finalized report and recommendations will be incorporated into the Development Permit.

Sensitive Ecosystems (Green Infrastructure Areas) Development Permit Requirement

- The subject property falls within the Sensitive Ecosystems DPA for Green Infrastructure Areas in the OCP, given the location of a Biodiversity Conservation Strategy (BCS) Green Infrastructure Network (GIN) Corridor, which is currently located near the centre of the subject site. The Sensitive Ecosystems (Green Infrastructure Areas) Development Permit is required to protect environmentally sensitive and/or unique natural areas from the impacts of development.
- The City of Surrey Biodiversity Conservation Strategy (BCS) Green Infrastructure Network (GIN) map, adopted by Council on July 21, 2014 (Corporate Report No. R141; 2014), identifies a local BCS corridor on the subject site, in the Redwood BCS management area, with a Low ecological value. This BCS Corridor also serves as the Grandview Ridge Trail.
- An Ecosystem Development Plan, prepared by Ian Whyte, P.Ag, of Envirowest Consultants Inc. and dated September 2023 was peer reviewed by Alexander Drake of Enkon Environmental Ltd., and found to be generally acceptable. The finalized report and recommendations will be incorporated into the Development Permit.

Form and Character Development Permit Requirement

- The proposed development is subject to a Development Permit for Form and Character and is also subject to the urban design guidelines in the Sunnyside Heights Neighbourhood Concept Plan (NCP).
- The proposed development generally complies with the Form and Character Development Permit guidelines in the OCP and the design guidelines in the Sunnyside Heights Neighbourhood Concept Plan (NCP).

- The applicant has worked with staff to strengthen the buildings to street and trail interfaces.
- The proposed 74-unit townhouse project consists of thirteen (13), three-storey buildings with garages accessed internally at grade. Clarify number of side by side garage un. and tandems.
- The proposal is comprised of two largely independent townhouse development areas separated by the central green space/tree retention area which bisects the site east-west. The north development portion is accessed from 17A Avenue and the south from 166A Street. There is no vehicular connection between the two development areas. There is an internal walkway connection and the Trail alignment runs along the eastern side of both areas.
- The townhouse units' range in size from 1,385 square metres to 1,699 square metres and are comprised of a mix of 3- and 4-bedroom units.
- The units have been oriented to interface appropriately with the future Grandview Ridge Trail to the east and south.
- The proposed exterior materials include hardie siding (in colours white and shades of gray), hardie board (in a wood grain finish), and accent stone veneer in cultured gray stone. Asphalt shingles (antique black) are proposed for the roof.
- The site plan and buildings are designed to step with the grades of the site, which will help to break up the massing of the buildings. Articulation is provided along the elevations, and the roof line is broken up through the use of gables and hip roofs.

Landscaping

• The landscaping plan shows a total of 45 trees to be planted throughout the site including coniferous and deciduous trees, including Maple Trees in a variety of species, Forest Pansy Redbud, Weeping Nootka Cypress, Red Obelisk Beech, Serbian Spruce, Purple Leaf Plum, Douglas Fir, and Green Pillar Pin Oak. A significant number of shrubs and ground cover species are proposed throughout the site.

Indoor Amenity

- Based on the standard Zoning By-law requirement of 3.0 square metres per dwelling unit of outdoor amenity space, the proposed development requires 222 square metres of indoor amenity space.
- A 2-level indoor amenity building is proposed, with a total size of 237 square metres. The building is located centrally within the site abutting the natural green space/tree retention area. It includes a kitchen and lounge space which can be programmed in a variety of ways to meet the needs of residents.

Outdoor Amenity

- Based on the standard Zoning By-law requirement of 3.0 square metres per dwelling unit of outdoor amenity space, the proposed development requires 222 square metres of outdoor amenity space.
- The proposed outdoor amenity space exceeds this requirement at 300 square metres. Two outdoor amenity spaces are proposed. Approximately 170 square metres of outdoor amenity space is centrally located next to the large tree retention area and indoor amenity building. Another 130 square metres of outdoor amenity space is located on the south portion of the site.

Outstanding Items

There are a limited number of Urban Design items that remain outstanding, and which do not
affect the overall character or quality of the project, including providing bicycle racks, confirm
wayfinding signage and hydrant locations with Surrey Fire Department. The applicant has
been provided a detailed list identifying these requirements and has agreed to resolve these
prior to Final Approval of the Development Permit, should the application be supported by
Council.

TREES

• Tim Vandenberg, ISA Certified Arborist of Mike Fadum & Associates prepared an Arborist Assessment for the subject property. The table below provides a summary of the proposed tree retention and removal by tree species:

Table 1: Summary of Proposed Tree Preservation by Tree Species:

Table 1: Summary of Proposed Tree Preservation by Tree Species:				
Tree Species	Ex	isting	Remove	Retain
Alder and Cottonwood Trees				
Alder/Cottonwood		83	83	0
(excluding		ous Trees nd Cottonw	ood Trees)	
Apple		1	1	0
Birch, Paperbark		9	8	1
Cherry		1	1	0
Horse Chestnut		2	2	О
Maple, Bigleaf		32	26	6
Maple, Red		1	1	0
Walnut		1	1	0
	Coniferous Trees			
Deodar Cedar		2	1	1
Douglas Fir		5	4	1
Falsecypress		1	1	0
Fir	1		1	0
Yew, Pacific		1	1	0
Western Red Cedar		23	17	6
Total (excluding Alder and Cottonwood Trees)		80	65	15
Total Replacement Trees Proposed (excluding Boulevard Street Trees) 329				
Total Retained and Replacement Trees Proposed		344		
Estimated Contribution to the Green City Program		\$ o		

- The Arborist Assessment states that there are a total of 80 mature trees on the site, excluding Alder and Cottonwood trees. 83 existing trees, approximately 51 % of the total trees on the site, are Alder and Cottonwood trees. The applicant proposes to retain 15 trees as part of this development proposal. The proposed tree retention was assessed taking into consideration the location of services, building footprints, road dedication and proposed lot grading.
- For those trees that cannot be retained, the applicant will be required to plant trees on a 1 to 1 replacement ratio for Alder and Cottonwood trees, and a 2 to 1 replacement ratio for all other trees. This will require a proposed total of 213 replacement trees on the site. The applicant has proposed 329 replacement trees, exceeding the requirement.

- The new trees on the site will consist of a variety of trees including Maple Trees in a variety of species, Forest Pansy Redbud, Weeping Nootka Cypress, Red Obelisk Beech, Serbian Spruce, Purple Leaf Plum, Douglas Fir, and Green Pillar Pin Oak. A significant number of shrubs and ground cover species are proposed throughout the site.
- In summary, a total of 344 trees are proposed to be retained or replaced on the site.
- The proposed tree retention and replacement strategy will be refined as the applicant works through the detailed design process.

INFORMATION ATTACHED TO THIS REPORT

The following information is attached to this Report:

Appendix I. Site Plan, Building Elevations, Landscape Plans and Perspective

Appendix II. Engineering Summary
Appendix III. School District Comments

Appendix IV. Summary of Tree Survey, Tree Preservation and Tree Plans

Appendix V. NCP Plan

Appendix VI. Development Variance Permit No. 7917-0506-00

approved by Shawn Low

Don Luymes General Manager Planning and Development

HS/ar

Appendix I



CITY OF SURREY FILE #: 17-0506-00

1011336 BC Ltd.

RAWING TITLE

CONTEXT PLAN

DATE 2019.12.31 FILE NO.

DWN. MS
CHK. CH 1709

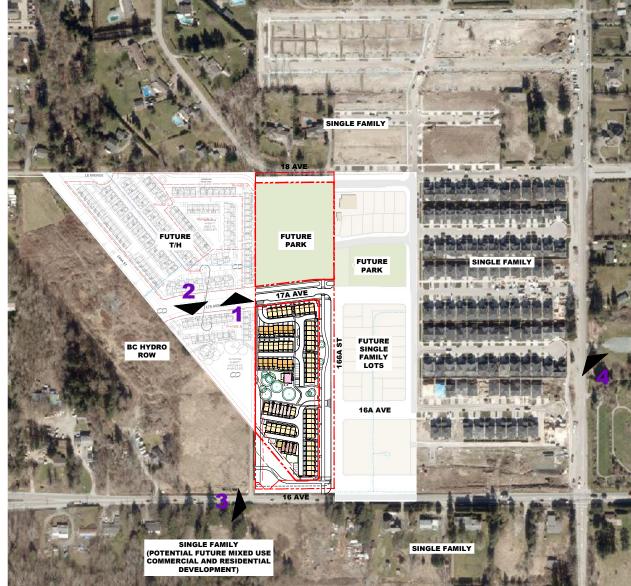




BLDG 23 BLDG 22











EAST STREETSCAPE (166A STREET) SCALE: 1/32" = 1'-0"



EAST STREETSCAPE (166A STREET) - enlarged SCALE: 3/32" = 1'-0"



EAST STREETSCAPE (166A STREET) - enlarged

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1011336 BC Ltd.

COLORED STREETSCAPE

DATE 2019.12.31 FILE NO.
DWN. DW
CHK. CH 1709

DP-0.0a



NORTH STREETSCAPE (17A AVE.)
SCALE: 3/32" = 1'-0"



SOUTH STREETSCAPE (16 AVE)
SCALE: 3/32" = 1'-0"

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1011336 BC Ltd.

16607 16th AVE SURREY, BC

DRAWING TITLE

COLORED STREETSCAPES

DATE 2019.12.31 FILE NO.
DWN. DW 1709

DP-0.0b

COLOUR SCHEME A:

(B)

(c)

Horizontal Siding 1:

James Hardie

James Hardie

Horizontal Siding 2:

'Light Mist'



'Arctic White'



Horizontal Siding 3:

James Hardie 'Night Gray'



Fisher 'Chris Craft 2.0'



G

Cement Board Panels: (E)

Benjamin Moore

Window Frames:

Entry Door:

Benjamin Moore

Benjamin Moore

James Hardie Panel

Fascia, Trims, and Window Trims:



'Arctic White'

'Black Beauty'

'White'

'Black Beauty'

'Spiced Rum'

'2128-10'

Roof Shingles:

Pabco Premier Laminated Shingle 'Antique Black'



Stone Veneer:

Cultured Stone Pro-Fit Terrain Ledgestone 'Ethos'



Metal Railing:

'Black'



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CITY OF SURREY FILE #: 17-0506-00

1011336 BC Ltd.

16607 16th AVE SURREY, BC

DRAWING TITLE

COLOR SCHEME A

DATE 2019.12.31 FILE NO. DW 1709

DP-0.0c

COLOUR SCHEME B:

Horizontal Siding 1: James Hardie 'Arctic White' **Horizontal Siding 2:** (B)

Cement Board Panels: (E) James Hardie Panel 'Arctic White'



Roof Shingles: Pabco Premier Laminated Shingle 'Antique Black'



Fascia, Trims, and Window Trims: Benjamin Moore 'Black Beauty'

Window Frames:



Stone Veneer: Cultured Stone Pro-fit Terrain Ledgestone 'Ethos'



Horizontal Siding 3: (c)

James Hardie

James Hardie 'Night Gray'

'Light Mist'



G

'White'







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CITY OF SURREY FILE #: 17-0506-00

1011336 BC Ltd.

16607 16th AVE SURREY, BC

COLOR SCHEME B

DATE 2019.12.31 FILE NO.

он 1709

DP-0.0d

Horizontal Siding 4: $\langle \mathsf{D} \rangle$ James Hardie

'Boothbay Blue'





'Black Beauty' 'Spiced Rum'





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INCORPORATED

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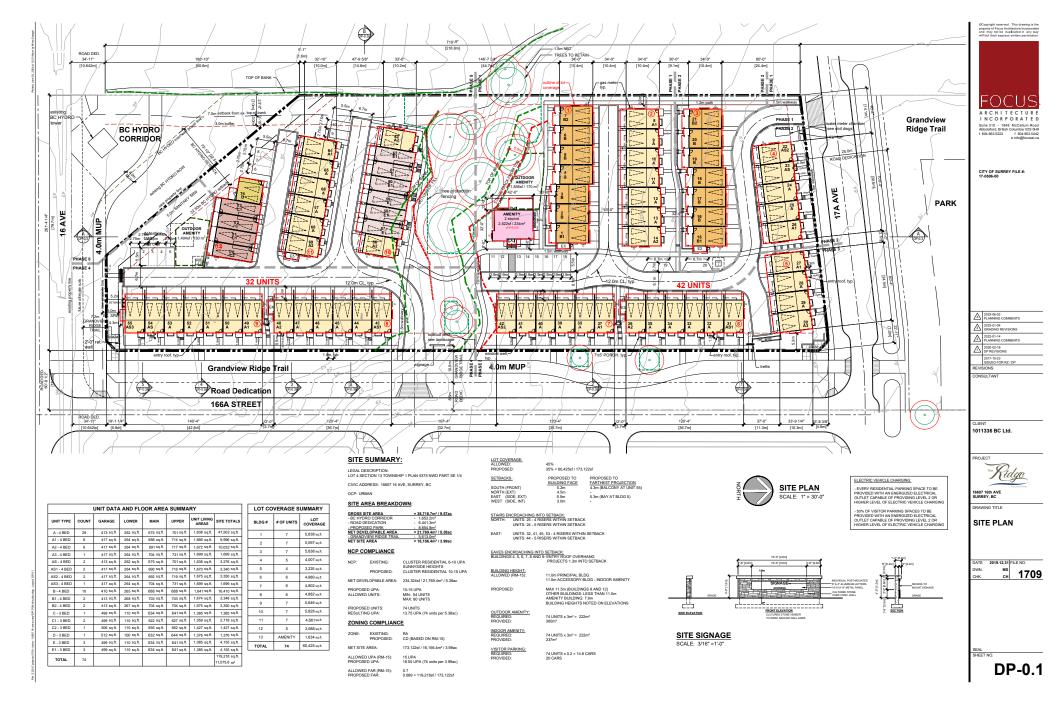
RAWING TITLE

Amenity Building

DATE 2019.12.31 FILE NO.

он 1709

DP-0.0e



SITE AREA BREAKDOWN:

GROSS SITE AREA	= 38,718.7m ² / 9.57ac
- BC HYDRO CORRIDOR	- 1,653.2m²
- ROAD DEDICATION	- 6,441.3m ²
- PROPOSED PARK	- 8,854.8m ²
NET DEVELOPABLE AREA	= 21,769.4m ² / 5.38ac
- GRANDVIEW RIDGE TRAIL	- 5,613.0m²
NET SITE AREA	= 16.156.4m ² / 3.99ac



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CITY OF SURREY FILE #: 17-0506-00

1011336 BC Ltd.

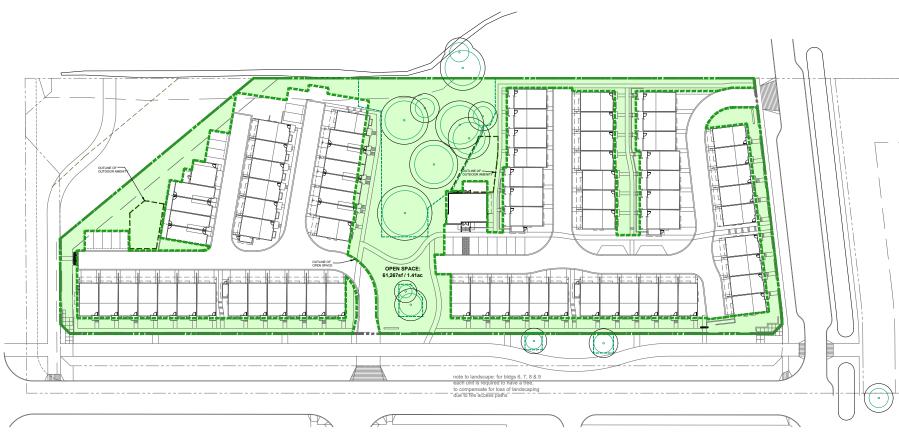
16607 16th AVE SURREY, BC

DRAWING TITLE

SITE AREAS MAP

DATE 2019.12.31 FILE NO.
DWN. MS
CHK. CH 1709

DP-0.1a



NET SITE AREA

= 173,122sf / 3.97ac

TOTAL OPEN SPACE

= 35% (61,267sf / 1.41ac)



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CITY OF SURREY FILE #: 17-0506-00

1011336 BC Ltd.

16607 16th AVE SURREY, BC

DRAWING TITLE

OPEN SPACE

DATE 2019.12.31 FILE NO.

мв 1709

DP-0.1c



PLANT SCHEDULE PMG PROJECT NUMBER: 19-035 PLANTED SIZE / REMARKS VINE MAPLE PAPERBARK MAPLE COLUMNAR KARPICK MAPLE 2.5M HT; B&B; 3 STEM CLUMP ACER GRISEUM ACER RUBRUM 'KARPICK' 6CM CAL; 1.8M STD; B&B 6CM CAL; 2M STD; B&B CERCIS CANADENSIS 'FOREST PANSY'
CHAMAECYPARIS NOOTKATENSIS 'PENDULA FOREST PANSY REDRUID 6CM CAL; 1.8M STD;B&B 2.5M HT; B&B CHAMAECYPARIS NOOTKATENSIS EXISTING TREE FAGUS SYLVATICA 'RED OBELISK' PICEA OMORIKA PRUNUS PISSARDII 'NIGRA' RED OBELISK BEECH 6CM CAL; 1.8M STD; B&B SERBIAN SPRUCE PURPLE LEAF PLUM 2.5M HT; B&B 6CM CAL; 1.5M STD; B&B PSEUDOTSUGA MENZIESII DOUGLAS FIR 3M HT: B&B GREEN PILLAR PIN OAK QUERCUS PALUSTRIS 'PRINGREEN' 6CM CAL: 1.8M STD: B&B

NOTES: "PLANT SIZES IN THIS LIST ARE SPECIFIED ACCORDING TO THE BC LANDSCAPE STANDARD AND CAMADIAN LANDSCAPE STANDARD LATEST EDITION. CONTAINER SIZES SPECIFIED AS PIRE CAME, STIMMARD, MOTHER LATEST EDITION. CONTAINER SIZES SPECIFIED AS PIRE CAME, STIMMARD, MOTHER LATEST SEARCH AND A STANDARD, MOTHER LATEST SEARCH AND A STANDARD AND CONTAINER. THE MAN ADMINISTRATION OF THE MOTHER LANDSCAPE AND A STANDARD AND CONTAINER. THE MAN ADMINISTRATION FROM THE LANDSCAPE ACCUSTATION FOR ADMINISTRATION FOR ADMINIS





KOMPAN ROBINIA PLAYHOUSE - NR0401

WISHBONE INDUSTRIES - PARKER BENCH-



WISHBONE INDUSTRIES - PARKER PICNIC TABLE - SAND SLATS, BLACK FRAME



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LANDSCAPE ARCHITECTS
Sulte C100 - 4185 Still Creek Drive
Burnaby, British Columbia, VSC 669
p; 604 294-0022

SEAL:

CLIENT:

PROJECT



TOWNHOUSE DEV.

16607 16th AVENUE SURREY, BC

RAWING TITLE

OVERALL LANDSCAPE PLAN

ATE:	19.APR.03	DRAWING NUMBER
CALE:	1:400	
RAWN:	DO	11
ESIGN:	DO	
HKD:	MCY	OF 1

19-035

035-11 7IP

PMG PROJECT NUMBER:

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	ITEM	DESCRIPTION
♠ □ □	CONCRETE	BROOM FINISHED
(B) THETHE	PERMEABLE CONCRETE PAVER SYSTEM IN VISITORS PARKING STALLS	PERMEABLE SUBGRADE TO MAN. SPECS.
© 	PLAZA PAVING- SAWCUT CONCRETE	LIGHT BROOM FINISH, 1.2M O.C. SAWCUT LINES
(I) 100000	GRAVEL UNDER OVERHANG	MIN. 4" RIVER ROCK OVER WEED FABRIC
	PAVERS AT ENTRY	BELGARD CONCRETE UNIT VS-5 PAVERS GREY & CHARCOAL, ON SAND LAYER
(F)	STRUCTURAL SOIL	0.6M DEEP STRUCTURAL SOIL UNDER PAVEMENT
<u> </u>	CONCRETE PAVERS ON GRADE	BELGARD - HOLLAND STONE, VICTORIAN
(H) 00000	CONCRETE STEPPING PADS	24"x24" BELGARD NEW YORK STONE - GRANITE
⊕ ⊞	GARDEN PLOTS	PLOTS AT GROUND LEVEL
⊘ ~	1.2M HT. WOOD FENCE	FRONT AND REAR YARDS AS INDICATED
®	1.8M HT. WOOD FENCE	PERIMETER FENCE
<u> </u>	CONCRETE RETAINING WALL	CAST IN PLACE
<u>₩</u> —	WHEEL STOP	SANDERSON CONCRETE PRODUCTS
(N) 	BENCH	WISHBONE INDUSTRIES - PARKER BENCH- SAND SLATS, BLACK FRAME
<u>◎</u> 铃	ROUND PICNIC TABLE	WISHBONE INDUSTRIES - URBAN SPACE ROUND PICNIC TABLE, ALUMINUM, GROOVY RED
(2)	PICNIC TABLE	WISHBONE INDUSTRIES - PARKER PICNIC TABLE SAND SLATS, BLACK FRAME
<u>⊚</u> ∐	GARDEN SHED	GARDENSHED CANADA: BAYSIDE 4X8 LEAN-TO SHED

MATERIALS LEGEND



CLIENT:

TOWNHOUSE DEV.

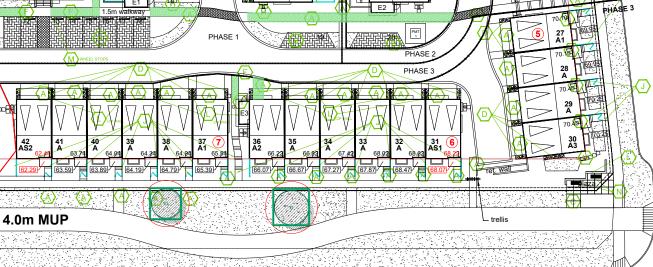
16607 16th AVENUE SURREY, BC

PHASES 1-3 MATERIALS PLAN

ATE:	19.APR.03	DRAWING NUMBER
CALE:	1:200	
RAWN:	DO	L5
ESIGN:	DO	
HKD:	MCY	OF 1

19-035





gas metertyp.

5 B

В1

E1

AMENITY. 2 stories 2.522sf / 234m²

LFE=61.50

8 A1

11 A

PHASE 2 PHASE 1

1.5m walkway

PHASE

PHASE 2

22 AS2

23 AS

24 A 69.69 5

25 A

26 A1

(see civ

PHASE 2

1.2m path

18 B

66.44 15 B1

E2 7

爾



WATERIALS	LEGEND	
	ITEM	DESCRIPTION
♠ □ □	CONCRETE	BROOM FINISHED
	PERMEABLE CONCRETE PAVER SYSTEM IN VISITORS PARKING STALLS	PERMEABLE SUBGRADE TO MAN. SPECS.
	PLAZA PAVING- SAWCUT CONCRETE	LIGHT BROOM FINISH, 1.2M O.C. SAWCUT LINES
(I) 1000000	GRAVEL UNDER OVERHANG	MIN. 4" RIVER ROCK OVER WEED FABRIC
	PAVERS AT ENTRY	BELGARD CONCRETE UNIT VS-5 PAVERS GREY & CHARCOAL, ON SAND LAYER
(E)	STRUCTURAL SOIL	0.6M DEEP STRUCTURAL SOIL UNDER PAVEMENT
<u>(6)</u>	CONCRETE PAVERS ON GRADE	BELGARD - HOLLAND STONE, VICTORIAN
(H) 00000	CONCRETE STEPPING PADS	24"x24" BELGARD NEW YORK STONE - GRANITE
⊕ ⊞	GARDEN PLOTS	PLOTS AT GROUND LEVEL
∅ —~	1.2M HT. WOOD FENCE	FRONT AND REAR YARDS AS INDICATED
⟨ ⟨ ⟨ ⟨ ⟨ ⟨ ⟨ ⟨ ⟨ ⟨ ⟨ ⟨ ⟨ ⟨ ⟨ ⟨ ⟨ ⟨ ⟨	1.8M HT. WOOD FENCE	PERIMETER FENCE
	CONCRETE RETAINING WALL	CAST IN PLACE
₩ —	WHEEL STOP	SANDERSON CONCRETE PRODUCTS
₩ 📥	BENCH	WISHBONE INDUSTRIES - PARKER BENCH- SAND SLATS, BLACK FRAME
	ROUND PICNIC TABLE	WISHBONE INDUSTRIES - URBAN SPACE ROUND PICNIC TABLE, ALUMINUM, GROOVY RED
	PICNIC TABLE	WISHBONE INDUSTRIES - PARKER PICNIC TABLE SAND SLATS, BLACK FRAME
<u>©</u> ₩	GARDEN SHED	GARDENSHED CANADA: BAYSIDE 4X8 LEAN-TO SHED
⊕ □	BBQ	BY STRATA

MATERIALS LEGEND

TOP OF BANK -

32 UNITS

Grandview Ridge Trail

Road Dedication

166A STREET

65 A

7.0m setback from ex. top-of-bank

BC HYDRO CORRIDOR

4.0m

HASE 5

HASE 4



CLIENT:



TOWNHOUSE DEV.

16607 16th AVENUE SURREY, BC

PHASES 4 & 5 MATERIALS PLAN

DATE:	19.APR.03	DRAWING N
SCALE:	1:200	
DRAWN:	DO	- 19
DESIGN:	DO	_
CHKD:	MCY	

signage -



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_		
	23 JUNE 01	NEW SITE PLAN/GRADING
_		NEW SITE PLAN/GRADING
		NEW SITE PLAN, COORDINATION WITH CIVIL
	21.MAR.16	NEW SITE PLAN, COORDINATION
5	20.MAR.02	NEW SITE PLAN
4	20.FEB.26	NEW SITE PLAN
3	19.DEC.18	NEW SITE PLAN
2	19.0CT.29	NEW SITE PLAN
1	19.5EP.30	NEW SITE PLAN
NO.	DATE	REVISION DESCRIPTION

CLIENT:

PROJECT:



TOWNHOUSE DEV.

16607 16th AVENUE SURREY, BC

PHASES 4-5 PLANT LISTS

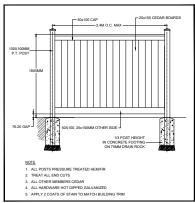
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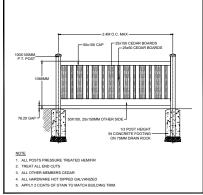
٧N.	T S	CHEDULE	PHASE 4	PMG PROJECT NUMBER: 19-038
	TY	BOTANICAL NAME	COMMON NAME	PLANTED SIZE / REMARKS
_				
9	4	ACER GRISEUM	PAPERBARK MAPLE	6CM CAL; 1.8M STD; B&B
	7	ACER RUBRUM 'KARPICK'	COLUMNAR KARPICK MAPLE	6CM CAL; 2M STD; B&B
	8	CERCIS CANADENSIS 'FOREST PANSY'	FOREST PANSY REDBUD	6CM CAL; 1.8M STD;B&B
	2	CHAMAECYPARIS NOOTKATENSIS 'PENDULA'	WEEPING NOOTKA CYPRESS	2.5M HT; B&B
	3	EXISTING TREE		
	14	FAGUS SYLVATICA 'RED OBELISK'	RED OBELISK BEECH	6CM CAL; 1.8M STD; B&B
ì	4	PRUNUS PISSARDII 'NIGRA'	PURPLE LEAF PLUM	6CM CAL; 1.5M STD; B&B
5	31	AZALEA JAPONICA 'MOTHER'S DAY'	AZALEA; DARK-RED	#2 POT; 25CM
/	11	FOTHERGILLA MAJOR 'MOUNT AIRY'	MOUNT AIRY FOTHERGILLA	#3 POT; 60CM
9	4	HYDRANGEA MACROPHYLLA 'TINKERBELL'	ROSY SPLENDOR BIGLEAF HYDRANGEA - PINK	#3 POT; 80CM
	2	HYDRANGEA PANICULATA 'BIG BEN'	BIG BEN HYDRANGEA	#3 POT; 80CM
<i>o</i> 6	45	NANDINA DOMESTICA 'FIREPOWER'	FIREPOWER HEAVENLY BAMBOO	#2 POT; 40CM
	10	RHODODENDRON 'BOW BELLS'	RHODODENDRON: PINK	#3 POT: 30CM
7	5	RHODODENDRON 'PURPLE SPLENDOR'	RHODODENDRON: DARK PURPLE: L. MAY	#3 POT: 50CM
ν.	39	ROSA MEIDELAND BONICA:	MEIDILAND ROSE: PINK	#2 POT: 40CM
γ.	3	SYRINGA PATLILA MISS KIM	MISS KIM COMPACT LILAC	#3 POT: FOCM
ソュ	169	TAXUS X MEDIA 'HICKSII'	HICK'S YEW	1.2M B&B
	12	VACCINIUM NORTHBLUE	NORTHBLUE BLUEBERRY	#3 POT: 40CM
	8	VACCINIIM NORTHIAND	NORTHLAND BLUEBERRY	#3 POT: FOCM
١.	41	VACCINII IM OVATI IM	EVERGREEN HUCKLEBERRY	#2 POT: 50CM
".	45	VIBLIENI IM DAVIDII	DAVID'S VIBURNUM	#3 POT: 50CM
ss		VIDORATORI DAVIDII	DAVID O VIDORATOR	#51 G1, 550M
)	7	CAREX 'BEATLEMANIA'	BEATLEMANIA SPRING SEDGE	#1 POT
<u> </u>	160	CAREX OSHIMENSIS 'EVEREST'	EVEREST JAPANESE SEDGE	#1 POT
) :	35	IMPERATA CYLINDRICA 'RED BARON'	BLOOD GRASS	#1 POT
/ :	20	MISCANTHUS SINENSIS 'ADAGIO'	ADAGIO MAIDEN GRASS	#1 POT
9 :	39	PANICUM VIRGATUM 'ROTSTRAHLBUSCH'	RED SWITCH GRASS	#1 POT
1	106	PENNISETUM ALOPECUROIDES	FOUNTAIN GRASS	#1 POT
) NNIA	2	HYDRANGEA PETIOLARIS	CLIMBING HYDRANGEA	#3 POT; 50CM; STAKED
	16	ALLIUM 'SCHOENOPRASIUM'	CHIVES	15CM POT
	230	IRERIS SEMPERVIRENS 'SNOWELAKE'	SNOWELAKE EVERGREEN CANDYTHET	15CM POT
	R2	NEPETA y FAASSENII 'DROPMORE'	RI LIF CATMINT	15CM POT
	20	ORIGANI IM HERACI FOTICI IM	GREEK OREGANO	15CM POT
	23	RUDBECKIA FULGIDA VAR SULLIVANTII 'GOLDST		15CM POT
)	2.0	NUODECHIA I OCCIDA VAR SUCCIVANTII GUEDSI	ON THE OWNER OF THE OWNER OWNER OF THE OWNER OWNE	IDOM I OI
η.	79	POLYSTICHUM MUNITUM	WESTERN SWORD FERN	#1 POT; 25CM
ν.	49	VACCINIUM VITIS-IDAEA	LINGONBERRY	# POT: 20CM

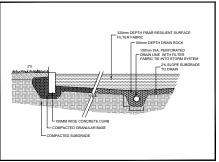
MOTES - PLANT SIZES IN THIS LIST ARE SPECIFED ACCORDING TO THE BIC LANDSCAPE STANDARD AND CANADIAN LANDSCAPE STANDARD, LATEST EDITION, CONTAINER SIZES SPECIFED AS PER COIL A STRANDARD. BOTH PLANT SIZE AND CONTAINER SIZE ARE THE MINIMAL MACCEPTABLE SIZES. **RESERT OS SPECIFICATIONS FOR DEFINED CONTAINER SIZES SPECIFIED AS PER COLLEGATION OF THE SIZES STANDARD AS A STANDARD SIZES. **RESERT OS SPECIFICATIONS FOR DEFINED CONTAINER SIZES AND CONTAINER SIZES AND CONTAINER SIZES STANDARD SIZES. **RESERT OS SPECIFICATIONS FOR DEFINED CONTAINER SIZES STANDARD SIZES S

PLAN	NT S	CHEDULE	PHASE 5	PMG PROJECT NUMBER: 19-035
	QTY	BOTANICAL NAME	COMMON NAME	PLANTED SIZE / REMARKS
TREE	3	ACER GRISEUM	PAPERBARK MAPLE	6CM CAL; 1.8M STD; B&B
S. Salas	4	CERCIS CANADENSIS FOREST PANSY	FOREST PANSY REDBUD	6CM CAL; 1.8M STD;B&B
WI)	2	CHAMAECYPARIS NOOTKATENSIS 'PENDULA'	WEEPING NOOTKA CYPRESS	2.5M HT; B&B
C	6	FAGUS SYLVATICA 'RED OBELISK'	RED OBELISK BEECH	6CM CAL; 1.8M STD; B&B
(0)	4	PRUNUS PISSARDII 'NIGRA'	PURPLE LEAF PLUM	6CM CAL; 1.5M STD; B&B
	16	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	3M HT; B&B
HRUB				
-(A1)	2	AZALEA JAPONICA 'PURPLE SPLENDOUR'	AZALEA; RED-VIOLET	#2 POT; 25CM
(BX)	121	BUXUS MICROPHYLLA 'WINTER GEM'	LITTLE-LEAF BOX	#3 POT; 40CM
(Fo)	2	FOTHERGILLA MAJOR 'MOUNT AIRY'	MOUNT AIRY FOTHERGILLA	#3 POT; 60CM
(HB)	9	HYDRANGEA PANICULATA BIG BEN'	BIG BEN HYDRANGEA	#3 POT; 80CM
(JND)	33	NANDINA DOMESTICA 'FIREPOWER'	FIREPOWER HEAVENLY BAMBOO	#2 POT; 40CM
(RB)	3	RHODODENDRON 'BOW BELLS'	RHODODENDRON; PINK	#3 POT; 30CM
(TRH)	5	RHODODENDRON 'PURPLE SPLENDOR'	RHODODENDRON; DARK PURPLE; L. MAY	#3 POT; 50CM
(RODE	13	ROSA MEIDELAND 'BONICA'	MEIDILAND ROSE; PINK	#2 POT; 40CM
SK)	45	SKIMMIA JAPONICA (10% MALE)	JAPANESE SKIMMIA	#2 POT; 30CM
GWE	2	SYRINGA PATULA 'MISS KIM'	MISS KIM COMPACT LILAC	#3 POT; 60CM
S(SY)	7	SYRINGA VULGARIS 'BURGUNDY QUEEN'	LILAC; BURGUNDY-RED	#3 POT; 80CM
(TX	3	TAXUS X MEDIA 'HICKSII'	HICK'S YEW	1.2M B&B
(vo)	25	VACCINIUM OVATUM	EVERGREEN HUCKLEBERRY	#2 POT; 50CM
(vo)	15	VIBURNUM DAVIDII	DAVID'S VIBURNUM	#3 POT; 50CM
CRASS				
(c)	15	CAREX OSHIMENSIS 'EVEREST'	EVEREST JAPANESE SEDGE	#1 POT
(HA)	181	HAKONECHLOA MACRA 'AUREOLA'	GOLD VARIEGATED JAPANESE FOREST GRASS	#1 POT
I≍(G)	89	LUZULA NIVEA	SNOWY WOOD RUSH	#1 POT
I(MA)	2	MISCANTHUS SINENSIS 'ADAGIO'	ADAGIO MAIDEN GRASS	#1 POT
⇒(PR)	2	PANICUM VIRGATUM 'ROTSTRAHLBUSCH'	RED SWITCH GRASS	#1 POT
(PO)	74	PENNISETUM ALOPECUROIDES	FOUNTAIN GRASS	#1 POT
PEBENI	NIAL			
(OR)	1	ORIGANUM HERACLEOTICUM	GREEK OREGANO	15CM POT
(R)	3	RUDBECKIA FULGIDA VAR SULLIVANTII 'GOLDST	URMRUDBECKIA; YELLOW	15CM POT
- Con	127	POLYSTICHUM MUNITUM	WESTERN SWORD FERN	#1 POT: 25CM
	33	VACCINIUM VITIS-IDAEA	LINGONBERRY	# POT: 20CM
W				

MOTES: "FANT SEES IN THIS IST ARE SPECIFIED ACCORDING TO THE GLANISCHEE STANDARD AND CANADIAL LARGE-VER STANDARD LATEST GOTTON. CONTINUER RUSES THE SPECIFIED AS FROM A STANDARD GOTTON OF THE STANDARD AND CANADIAL STANDARD STANDA



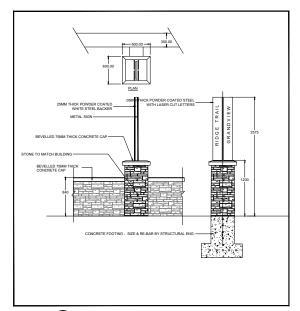


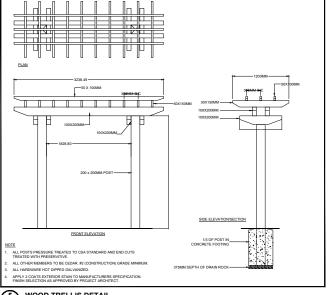


1.8M HT. WOOD PERIMETER FENCE

2 1.06M HT. WOOD PERIMETER FENCE

PLAY AREA DETAIL





TRAIL MARKER
1:25

5 WOOD TRELLIS DETAIL

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LANDSCAPE ARCHITECTS
Sulte C100 - 4185 Still Creek Drive Burnaby, British Columbia, VSC 669 p: 604 2294-012; f: 604 2294-0022

SEAL:

\$ 23,000.00 NW WIT PLANGAGON \$ 1 3,240.00 NW WIT PLANGAGON \$ 1 3,240.00 NW WIT PLANGAGON \$ 1 4,000.00 NW WIT PLANGAGON \$ 1 4,000.00 NW WIT PLANGAGON \$ 1,000.00 NW WIT PLA

CLIENT:



TOWNHOUSE DEV.

16607 16th AVENUE SURREY, BC

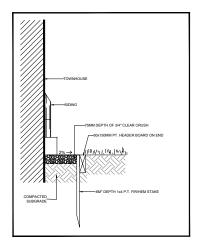
DRAWING TITL

LANDSCAPE DETAILS

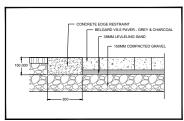
DATE:	19.APR.03	DRAWING NUMBER:
SCALE:	AS NOTED	
DRAWN:	DO	111
DESIGN:	DO	
CHK'D:	MCY	OF 13

19035-11-ZIP PMG PROJECT NUMBER:

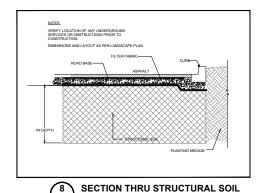
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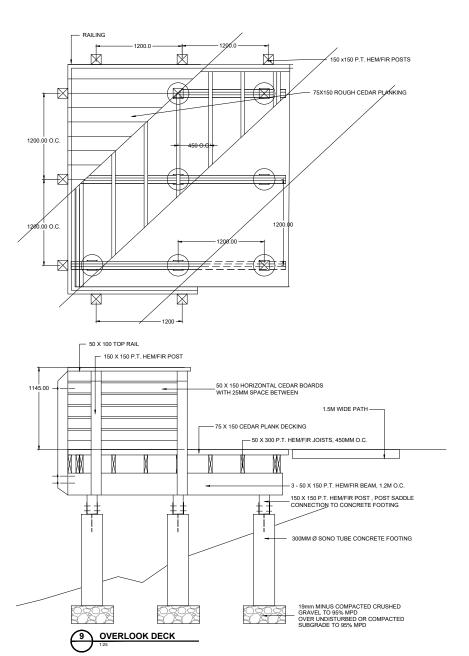


GRAVEL DRAIN STRIP









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LANDSCAPE ARCHITECTS Sulte C100 - 4185 Still Creek Drive Burnaby, British Columbia, VSC 669 p: 604 294-0022

SEAL:

_			
=			
_			
9	23.JUNE.01	NEW SITE PLAN/GRADING	
	23.JAN.26	NEW SITE PLAN/GRADING	
7	21.AUG.03	NEW SITE PLAN, COORDINATION WITH CIVIL	
6	21.MAR.16	NEW SITE PLAN, COORDINATION	
5	20.MAR.02	NEW SITE PLAN	
4	20.FEB.26	NEW SITE PLAN	
3	19.DEC.18	NEW SITE PLAN	
2	19.0CT.29	NEW SITE PLAN	
1	19.5EP.30	NEW SITE PLAN	
NO	DATE	REVISION DESCRIPTION	

CLIENT:

PROJE



TOWNHOUSE DEV.

16607 16th AVENUE SURREY, BC

DRAWING TITL

LANDSCAPE DETAILS

ATE:	19.APR.03	DRAWING NUMBER
CALE:	AS NOTED	
RAWN:	DO	117
ESIGN:	DO	
HKD:	MCY	OF 13



INTER-OFFICE MEMO

TO: Director, Area Planning & Development

- South Surrey Division

Planning and Development Department

FROM: Development Services Manager, Engineering Department

DATE: September 21, 2023 PROJECT FILE: 7817-0506-00

RE: Engineering Requirements

Location: 1660716 Ave

NCP AMENDMENT

There are no engineering requirements relative to the OCP Amendment/NCP Amendment/ALR Exclusion.

REZONE/SUBDIVISION

Property and Right-of-Way Requirements

- Dedicate approx. 10.0m along 18 Avenue.
- Dedicate approx. 17.442m along 16 Avenue.
- Dedicate 20.0m along 17A Avenue and additional 5.0m for the drainage corridor.
- Dedicate 20.m along 166A Street to accommodate the Grandview Ridge Trail.
- Dedicate a 3.0m x 3.0m corner cut at the intersection of 166A Street and 17A Avenue.
- Dedicate a 5.0m x 5.0m corner cut at the intersection of 166A Street and 16 Avenue.
- Register o.5m SRW along all frontages.

Works and Services

- Construct Grandview Ridge Trail MUP along 16 Avenue and 166A Street.
- Construct south half of 18 Avenue.
- Construct west half of 166A Street.
- Provide 7.2m driveway letdown access.
- Construct watermain along 166A Street, south of 16A Avenue.
- Provide adequately sized drainage, sanitary and water service connection to each lot.
- Pay applicable latecomer, DCC Frontender and DWA Agreement fees.

DEVELOPMENT PERMIT/DEVELOPMENT VARIANCE PERMIT

There are no engineering requirements relative to issuance of the Development Permit/ Development Variance Permit.

Jeff Pang, P.Eng.

Jeffy lang

Development Services Manager

RH

NOTE: Detailed Land Development Engineering Review available on file



Planning and Demographics October 10, 2023 City of Surrey Department:

Report For:

Development Impact Analysis on Schools For:

17 0506 00 updated Oct 2023 Application #:

The proposed development of 74 Townhouse units are estimated to have the following impact on elementary and secondary schools within the school regions.

School-aged children population projection 64

Projected Number of Students From This Development In:		
Elementary School =	35	
Secondary School =	18	
Total Students = 53		

Current Enrolment and Capacities:			
Edgewood Elementary			
Enrolment	867		
Operating Capacity	607		
# of Portables	14		
Grandview Heights Secondary			
Enrolment	1702		
Operating Capacity	1500		
# of Portables	8		

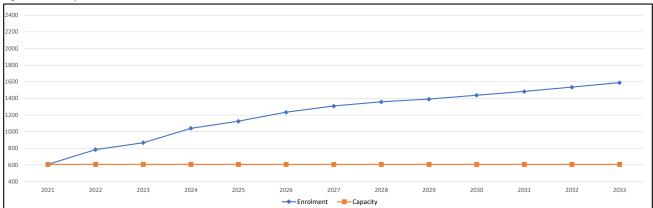
Summary of Impact and Commentary

The following tables illustrate the historical, current and future enrolment projections including current/approved ministry operating capacity for the elementary and secondary schools serving the proposed development.

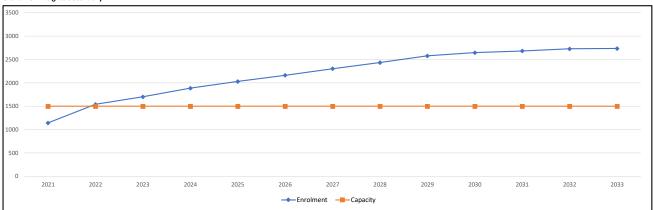
The area around south Surrey has seen significant development in recent years and this development will continue based on the City's NCP. Given the development in the area, the new Edgewood Elementary opened in January 2021 but as of September 2023, the school has 14 portables on site. To support further enrolment growth in this area, a new Ta'talu Elementary school, located below 20th Avenue, is targeted to open in the fall of 2025. Until then, the district will rely on portables to make up the seat shortfall and possible boundary changes.

To relieve the pressure at Earl Marriot Secondary school, a new 1500 capacity high school, Grandview Heights Secondary, located on 26th Ave next to the existing Pacific Heights Elementary opened in September 2021. The school is operating above capacity and enrolment is projected to grow in the next 10 years putting additional pressure on the District to fund portables and as a result, the District has requested as part of their 2024/2025 Capital Plan submission to the Ministry a 500 capacity addition for the school, targeted to open in 2029. There has been no Ministry funding approval for

Edgewood Elementary



Grandview Heights Secondary



Population: The projected population of children aged 0-17 impacted by the development. **Enrolment:** The number of students projected to attend the Surrey School District ONLY.

Tree Preservation Summary

Surrey Project No: 17-0506-00 Address: 16607 – 16 Avenue

Registered Arborist: Tim Vandenberg

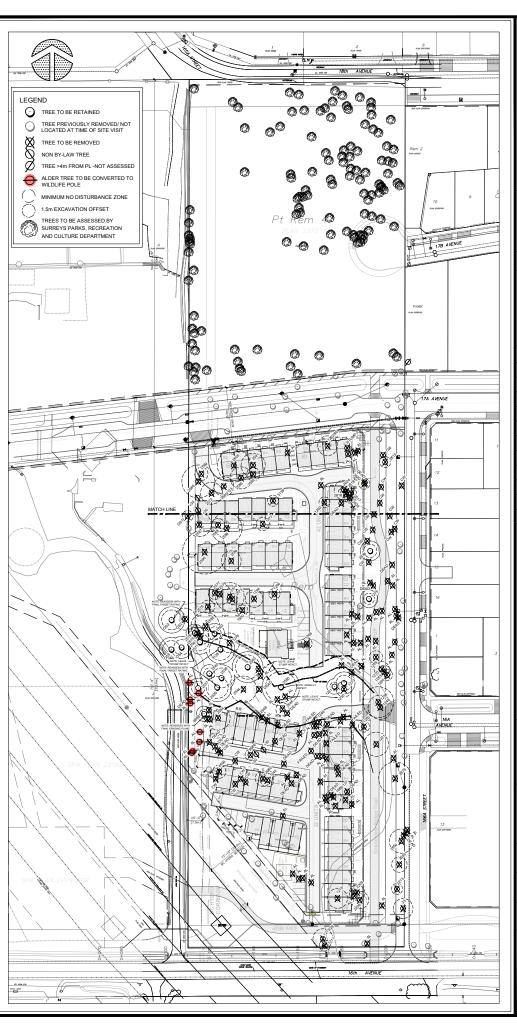
On-Site Trees	Number of Trees
Protected Trees Identified	
(on-site and shared trees, including trees within boulevards and proposed streets	163
and lanes, but excluding trees in proposed open space or riparian areas)	
Protected Trees to be Removed	148
Protected Trees to be Retained	15
(excluding trees within proposed open space or riparian areas)	15
- Alder & Cottonwood Trees Requiring 1 to 1 Replacement Ratio 83 X one (1) = 83 - All other Trees Requiring 2 to 1 Replacement Ratio 65 X two (2) = 130	213
Replacement Trees Proposed	329
Replacement Trees in Deficit	0
Protected Trees to be Retained in Proposed [Open Space / Riparian Areas]	NA

Off-Site Trees	Number of Trees
Protected Off-Site Trees to be Removed	2
Total Replacement Trees Required:	
- Alder & Cottonwood Trees Requiring 1 to 1 Replacement Ratio 0 X one (1) = 0	4
- All other Trees Requiring 2 to 1 Replacement Ratio	
2 X two (2) = 4	
Replacement Trees Proposed	NA
Replacement Trees in Deficit	NA

Summary report and plan prepared and submitted by: Mike Fadum and Associates Ltd.		
Signature of Arborist:	Vande	Date: October 10, 2023







#105, 8277 129 St.
Surrey, British Columbia
V3W 0A6
Ph: (778) 593-0300
Fax: (778) 593-0302
Email: mfadum@fadum.ca

CLIENT

FILE NO.

PROJECT TITLE

TREE PRESERVATION AND PROTECTION PLAN

16607 16 AVENUE SURREY, B.C.

REVISIONS:			
NO.	DATE	BY	REVISION
1	MAR30/18	MK	REVISIONS
2	MAY14/18	MK	SITE PLAN
3	FEB16/21	MK	UPDATED SURVEY
4	FEB16/21	MK	SITE PLAN
5	FEB23/21	MK	CIVIL PLAN
6	MAR16/21	MK	SITE & CIVIL PLAN
7	AUG10/21	MK	SITE & CIVIL PLAN
8	JAN04/22	MK	SITE & CIVIL PLAN
9	NOV08/22	MK	SITE & CIVIL PLAN
10	JAN23/23	MK	SITE & CIVIL PLAN

0 5 53 20 40 METERS

SHEET TITLE

T1 - TREE PRESERVATION AND REMOVAL PLAN

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DRAWN

MK

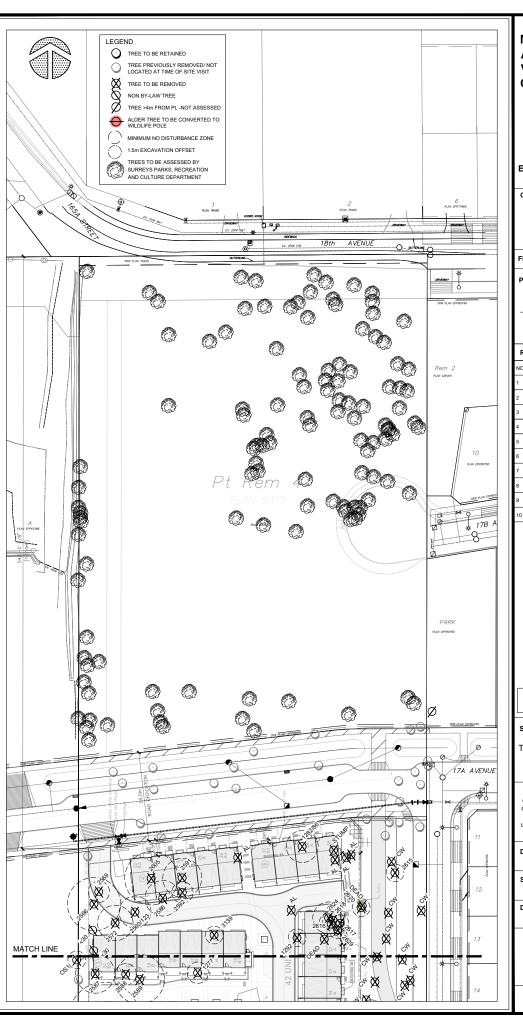
SCALE

AS SHOWN

DATE

AUGUST 30, 2017

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#105, 8277 129 St.
Surrey, British Columbia
V3W 0A6
Ph: (778) 593-0300
Fax: (778) 593-0302
Email: mfadum@fadum.ca

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FILE NO.

PROJECT TITLE

TREE PRESERVATION AND PROTECTION PLAN

16607 16 AVENUE SURREY, B.C.

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6	MAR16/21	MK	SITE & CIVIL PLAN	
7	AUG10/21	MK	SITE & CIVIL PLAN	
8	JAN04/22	MK	SITE & CIVIL PLAN	
9	NOV08/22	MK	SITE & CIVIL PLAN	
10	JAN23/23	MK	SITE & CIVIL PLAN	

0 5 10 20 METERS

SHEET TITLE

T1A - TREE PRESERVATION AND REMOVAL PLAN NORTH

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#105, 8277 129 St.
Surrey, British Columbia
V3W 0A6
Ph: (778) 593-0300
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FILE NO.

PROJECT TITLE

TREE PRESERVATION AND PROTECTION PLAN

> 16607 16 AVENUE SURREY, B.C.

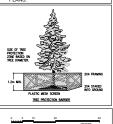
RI	REVISIONS:			
NO.	DATE	BY	REVISION	
1	MAR30/18	MK	REVISIONS	
2	MAY14/18	MK	SITE PLAN	
3	FEB16/21	MK	UPDATED SURVEY	
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8	JAN04/22	MK	SITE & CIVIL PLAN	
9	NOV08/22	MK	SITE & CIVIL PLAN	
10	JAN23/23	MK	SITE & CIVIL PLAN	

- GENERAL NOTES:

 NON BYLAW TREES HAVE BEEN REMOVED FROM THE PLANS

 TREE PROTECTION FENCING TO BE MEASURED FROM THE OUTER FOGG OF TREE TRUNK AND SHALL BE CONSTRUCTED TO MUNICIPAL STANDARDS.

 PLANS.



SHEET TITLE

T2 - TREE PRESERVATION AND PROTECTION PLAN

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 MK

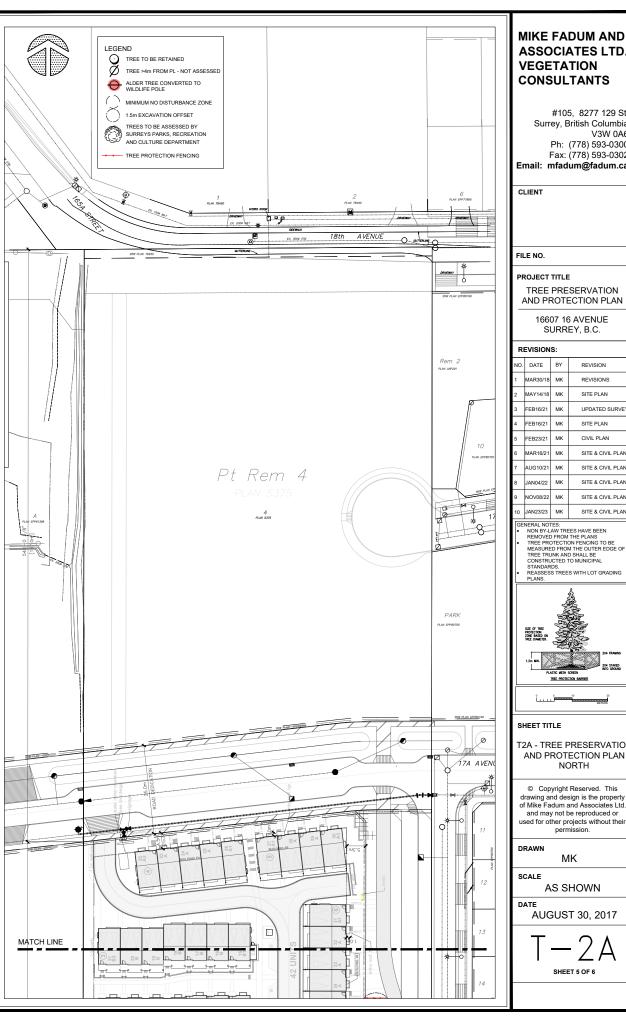
SCALE

AS SHOWN

DATE

AUGUST 30, 2017

SHEET 4 OF 6

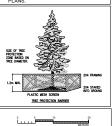


#105, 8277 129 St.
Surrey, British Columbia
V3W 0A6
Ph: (778) 593-0300
Fax: (778) 593-0302
Email: mfadum@fadum.ca

TREE PRESERVATION AND PROTECTION PLAN

> 16607 16 AVENUE SURREY, B.C.

R	REVISIONS:			
NO.	DATE	BY	REVISION	
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8	JAN04/22	MK	SITE & CIVIL PLAN	
9	NOV08/22	MK	SITE & CIVIL PLAN	
10	JAN23/23	MK	SITE & CIVIL PLAN	



T2A - TREE PRESERVATION AND PROTECTION PLAN NORTH

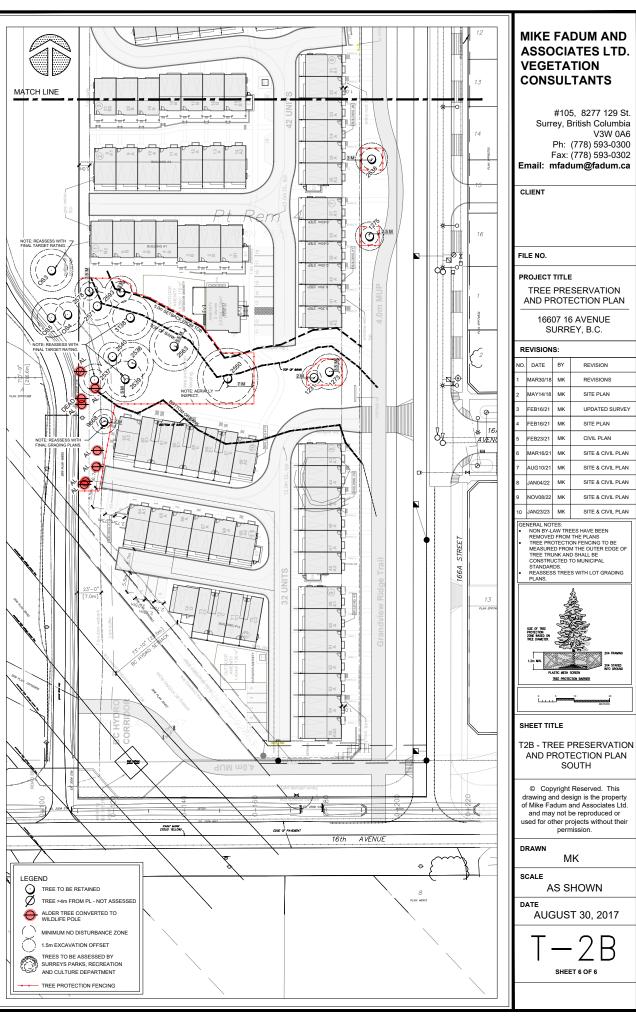
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MK

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AUGUST 30, 2017

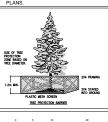
SHEET 5 OF 6



TREE PRESERVATION AND PROTECTION PLAN

SURREY, B.C.

REVISIONS:			
NO.	DATE	BY	REVISION
1	MAR30/18	MK	REVISIONS
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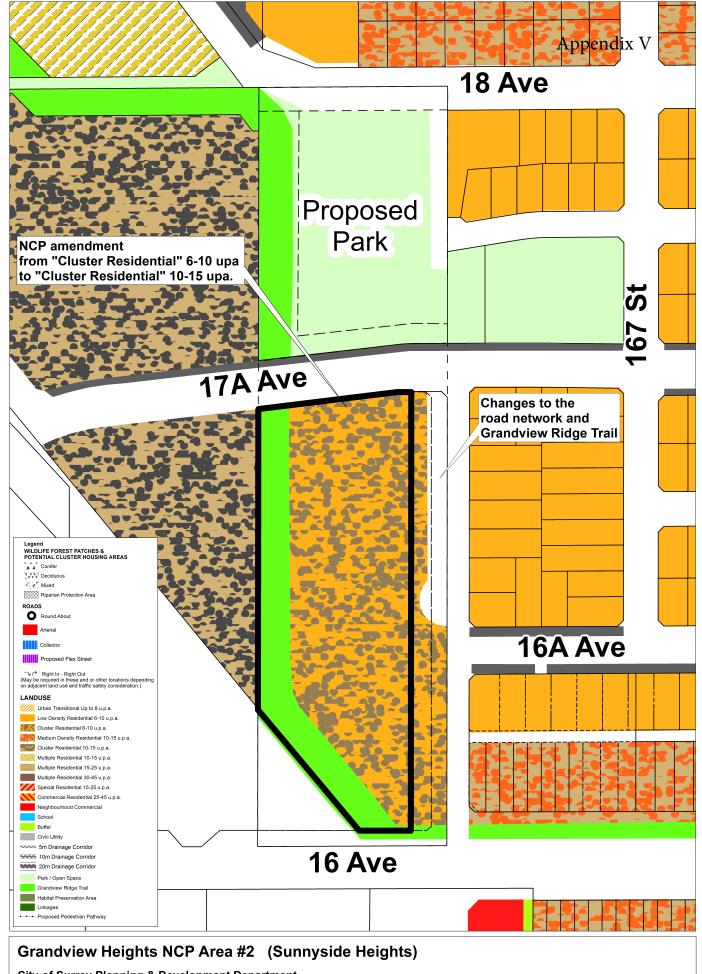


AND PROTECTION PLAN

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AS SHOWN

AUGUST 30, 2017



City of Surrey Planning & Development Department NCP amendment from "Cluster Residential" 6-10 upa to "Cluster Residential" 10-15 upa.

CITY OF SURREY

(the "City")

DEVELOPMENT VARIANCE PERMIT

		NO.: 7917-0506-00				
Issue	ed To:					
		(the "Owner")				
Addr	ess of C	Owner:				
1.	statu	development variance permit is issued subject to compliance by the Owner with all tes, by-laws, orders, regulations or agreements, except as specifically varied by this lopment variance permit.				
2.	with	This development variance permit applies to that real property including land with or without improvements located within the City of Surrey, with the legal description and civic address as follows:				
	Lot 4 S	Parcel Identifier: 011-135-077 Section 13 Township 1 New Westminster District Plan 5375 Except Plan Epp92865 16607 16 Avenue				
		(the "Land")				
3.	(a)	As the legal description of the Land is to change, the City Clerk is directed to insert the new legal description for the Land once title(s) has/have been issued, as follows:				
		Parcel Identifier:				
	(b)	If the civic address(es) change(s), the City Clerk is directed to insert the new civic address(es) for the Land, as follows:				

Surrey Zoning By-law, 1993, No. 12000, as amended is varied as follows: 4.

- (a) to reduce the minimum front yard (south) setback of the RM-30 Zone from 4.5 metres to 4.3 metres to the principal building face for Buildings 9 (balcony on Unit 55);
- (b) to reduce the minimum rear yard (north) setback of the RM-30 Zone from 6.0 metres to 4.5 metres to the principal building face for Buildings 4 and 5.
- (c) to reduce the minimum side yard (west) setback of the RM-30 Zone from 6.0 metres to 3.0 metres to the principal building face for Buildings 1, 2, and 3; and
- (d) varying the Zoning By-law to increase the maximum number of risers permitted within the front and side yard setback area from 3 to 4 for Units 24, 25, 32, 41, 45 and 53 and from 3 to 5 for Unit 44.
- 5. This development variance permit applies to only the <u>portion of the Land</u> shown on Schedule A which is attached hereto and forms part of this development variance permit. This development variance permit does not apply to additions to, or replacement of, any of the existing buildings shown on attached Schedule A, which is attached hereto and forms part of this development variance permit.
- 6. The Land shall be developed strictly in accordance with the terms and conditions and provisions of this development variance permit.
- 7. This development variance permit shall lapse if the Owner does not substantially start any construction with respect to which this development variance permit is issued, within two (2) years after the date this development variance permit is issued.
- 8. The terms of this development variance permit or any amendment to it, are binding on all persons who acquire an interest in the Land.

9.	This deve	elopment varia	nce permit is not a bu	ilding permit.
AUTHO DAY O			PASSED BY THE CO	UNCIL/DELEGATED OFFICIAL, THE
ISSUEI	O THIS	DAY OF	, 20 .	
				Mayor – Brenda Locke
				City Clerk – Jennifer Ficocelli

