

INTER-OFFICE MEMO

TO:

Mayor & Council

FROM:

General Manager, Planning and Development

DATE:

June 10, 2019

FILE:

7917-0559-00

RE:

Item B.6, Regular Council – Land Use Agenda Development Application No. 7917-0559-00

With respect to Item B.6 on the June 10, 2019 Regular Council – Land Use Agenda, Planning recommendation 3(a) on page 3, is to be revised to correct an error related to the proposed setback variance. The variance should be corrected to refer to the minimum side yard on a flanking street setback, not the minimum front yard setback. The recommendation is to be revised as follows:

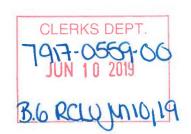
(a) to reduce the minimum side yard on a flanking street setback of the RA Zone from 7.5 metres (25 ft.) to 4.1 metres (13 ft.) for an existing accessory building on proposed Lot 27.

Replacement pages for the Development Variance Permit are attached.

Jean Lamontagne General Manager,

Area Planning & Development

L₄M



CITY OF SURREY

(the "City")

DEVELOPMENT VARIANCE PERMIT

NO.: 7917-0559-00

| Issued | To: | | | | | |
|--------|---|--|--|--|--|--|
| | (the "Owner") | | | | | |
| Addre | ss of O | wner: | | | | |
| 1. | This development variance permit is issued subject to compliance by the Owner with all statutes, by-laws, orders, regulations or agreements, except as specifically varied by this development variance permit. | | | | | |
| 2. | 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: | | | | | |
| | We | Parcel Identifier: 006-500-111 est Half Lot 4 Sectioon 24 Township 2 New Westminster District Plan 5556 | | | | |
| | | 16174 - 80 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: | | | | |

| 4. | Surrey | Zoning By-law, 1993, No. 12000, as amended is varied as follows: | | |
|----|---|--|--|--|
| | (a) | to reduce the minimum side yard on a flanking street setback of the RA Zone from 7.5 metres (25 ft.) to 4.1 metres (13 ft.) for an existing accessory building on proposed Lot 27. | | |
| 5. | This development variance permit applies to only that portion of the buildings and structures on the Land 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. | | and shall be developed strictly in accordance with the terms and conditions and ons of this development variance permit. | | |
| 7. | shown variand | evelopment variance permit shall lapse unless the subdivision, as conceptually on Schedule A which is attached hereto and forms part of this development ce permit, is registered in the New Westminster Land Title Office within three (3) after the date this development variance permit is issued. | | |
| 8. | | rms of this development variance permit or any amendment to it, are binding on all is who acquire an interest in the Land. | | |
| 9. | This de | evelopment variance permit is not a building permit. | | |
| | ORIZIN D THIS | IG RESOLUTION PASSED BY THE COUNCIL, THE DAY OF , 20 . DAY OF , 20 . | | |

Mayor – Doug McCallum

City Clerk – Jennifer Ficocelli

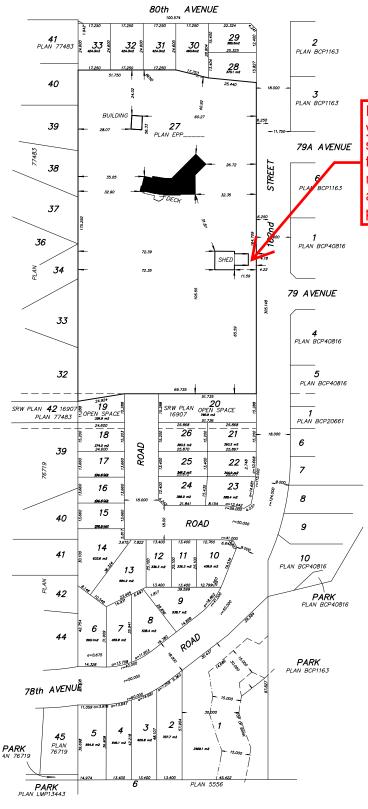
SCHEDULE A-

B.C. LAND SURVEYORS BUILDING LOCATION CERTIFI SHOWING IMPROVEMENTS ON LOT 26

SECTION 24 TOWNSHIP 2 NEW WESTMINSTER DISTRICT PLAN EPP_

SCALE 1: 1000 DISTANCES ARE IN METRES





Reduce the minimum side yard on a flanking street setback of the RA Zone from 7.5 metres to 4.1 metres for an existing accessory building on proposed Lot 27.

THIS BUILDING LOCATION CERTIFICATE HAS BEEN PREPARED IN ACCORDANCE WITH THE MANUAL OF STANDARD PRACTICE AND IS CERTIFIED CORRECT THIS 15th DAY OF OCTOBER, 2018.

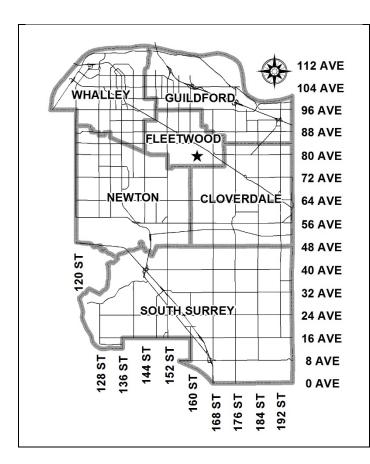
DRAFT 2019-MAY-09

GARY SUNDVICK

This document is not valid unless originally signed and sealed. OR MUNICIPAL AND OR MORTGAGE PURPOSES ONLY, NOT TO BE USED TO DEFINE PROPERTY BOUNDARIES



File: 4098 Dwg: 4098-CE2



City of Surrey PLANNING & DEVELOPMENT REPORT File: 7917-0559-00

Planning Report Date: June 10, 2019

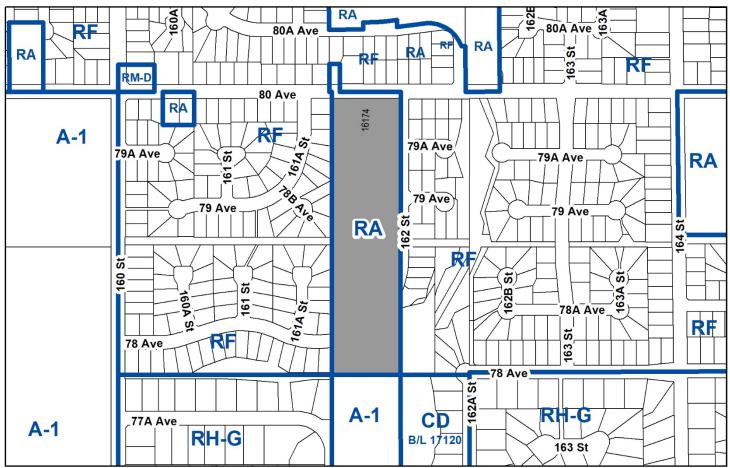
PROPOSAL:

- **Rezoning** a portion from RA to RF-13
- Development Permit
- Development Variance Permit

to allow subdivision into 29 small single family lots, one remnant lot, and 3 park lots.

LOCATION: 16174 - 80 Avenue

ZONING: RA **OCP DESIGNATION:** Urban



RECOMMENDATION SUMMARY

- By-law Introduction and set date for Public Hearing for Rezoning of portions of the property.
- Approval to draft Development Permit for Sensitive Ecosystems and Hazard Lands.
- Approval for Development Variance Permit to proceed to Public Notification.

DEVIATION FROM PLANS, POLICIES OR REGULATIONS

 Seeking a variance to reduce the front yard setback for an existing accessory building on a remnant lot.

RATIONALE OF RECOMMENDATION

- Complies with the Urban designation in the Official Community Plan (OCP) which allows a density up to 36 units per hectare (15 upa).
- The proposed small urban lots are considered to have merit in this part of Fleetwood, providing more variety in housing options. The proposal will create a streetscape that is consistent with the existing RF-zoned pattern of development in the area and will complement the existing neighbourhood character.
- Staff do not anticipate the designated density on the subject site to exceed the density of the RF-13 Zone (28 uph/11.5 upa) once the Fraser Highway Corridor Stage 1 review is completed.
- The proposal includes conveyance of three park lots, with a combined area of 4,587 square metres (49,373 sq.ft.) and amounting to 7.6% of the gross area of the parent property.
 Proposed Park Lots 19 and 20 over the Fortis right-of way will provide pedestrian connectivity in the neighbourhood and proposed Park Lot 1 will be conveyed for riparian area protection.
- The setback variance on proposed Lot 27 (remnant lot) will allow the retention of an existing accessory building until such time that the lot develops.
- The proposal provides additional road connectivity in the neighbourhood.

RECOMMENDATION

The Planning & Development Department recommends that:

- 1. A By-law be introduced to rezone a portion of the subject site shown as Block I and Block II on the attached Survey Plan (Appendix I) from "One-Acre Residential Zone (RA)" to "Single Family Residential 13 Zone (RF-13) and a date be set for Public Hearing.
- 2. Council authorize staff to draft Sensitive Ecosystems and Hazard Lands Development Permit No. 7917-0559-00 in accordance with the Ecosystem Development Plan prepared by Tracy Anderson, *R.P. Bio.*, of Envirowest Consultants Inc. and the geotechnical report prepared by Mehwish Rahman, *P. Eng.*, of GeoPacific Consultants Ltd.
- 3. Council approve Development Variance Permit No. 7917-0559-00 (Appendix VII) varying the following, to proceed to Public Notification:
 - (a) to reduce the minimum front yard setback of the RA Zone from 18 metres (59 ft.) to 4.1 metres (13 ft.) for an existing accessory building on proposed Lot 27.
- 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) submission of a finalized tree survey and a statement regarding tree preservation to the satisfaction of the City Landscape Architect;
 - (d) completion of all FortisBC requirements;
 - (e) the applicant address the concern that the development will place additional pressure on existing park facilities to the satisfaction of the General Manager, Parks, Recreation and Culture;
 - (f) demolition of existing buildings and structures to the satisfaction of the Planning and Development Department;
 - (g) the applicant satisfy the deficiency in tree replacement on the site, to the satisfaction of the Planning and Development Department;
 - (h) finalization of an Ecosystem Development Plan;
 - (i) finalization of a Geotechnical Report;
 - (j) the applicant satisfy the requirements for a P-15 Agreement; and
 - (k) registration of a Section 219 Restrictive Covenant to stipulate driveway location on proposed Lots 10 and 24.

REFERRALS

Engineering: The Engineering Department has no objection to the project

subject to the completion of Engineering servicing requirements as

outlined in Appendix III.

School District: **Projected number of students from this development:**

15 Elementary students at William Watson Elementary School 7 Secondary students at Fleetwood Park Secondary School

William Watson Elementary is currently operating above capacity (117%), however the School District is considering the need to build another future elementary school in the area to accommodate longer term demand.

Fleetwood Secondary School is currently operating above capacity (127%), however as part of the District's 2019/20 Five Year Capital Plan submission, there is a request for a 300 capacity addition targeted to open in 2024.

(Appendix IV)

The applicant has advised that the dwelling units in this project are expected to be constructed and ready for occupancy by September 2020.

Parks, Recreation & Culture:

Parks have some concerns about the pressure this project will place on existing Parks, Recreation and Culture facilities in the neighbourhood. The applicant has volunteered a \$889/lot Parks Amenity Contribution, totaling \$25,781 for the 29 newly created lots, and Parks has accepted this amount to address these concerns.

Parks will accept the Streamside Protection Area as parkland. A P-15 Agreement is required for monitoring and maintenance of replantings in the conveyed area.

FortisBC

FortisBC has no concerns with the proposed road dedication over the transmission line and relinquishment of their right-of-way, subject to further review.

SITE CHARACTERISTICS

Existing Land Use: 15-acre lot with one existing single family dwelling and accessory

buildings to be retained on the remnant lot.

Adjacent Area:

| Direction | Existing Use | OCP Designation | Existing Zone | |
|---------------------------|---------------------|-----------------|---------------|--|
| | | | | |
| North (Across 8o Avenue): | Single family | Urban | RF | |
| | dwellings | | | |
| East (Across 162 Street): | Single family | Urban | RF | |
| | dwellings | | | |
| South: | Single family | Suburban | A-1 | |
| | dwelling on 10-acre | | | |
| | lot | | | |
| West: | Single family | Urban | RF | |
| | dwellings | | | |

DEVELOPMENT CONSIDERATIONS

Background & Context

- The 6.o-hectare (14.9-acre) subject site is comprised of one lot located on the south side of 8o Avenue at 162 Street in Fleetwood. The subject site is designated Urban in the Official Community Plan (OCP) and is currently zoned "One-Acre Residential Zone (RA)".
- The subject site contains one single family dwelling and accessory buildings with access from 80 Avenue to the north.
- The site slopes down from north to south and is bisected by an 8-metre (26-ft.) wide Fortis right-of-way.
- The site is directly south of the Fleetwood Town Centre boundary which is 80 Avenue, and is 400 metres (1,312 ft.) north of the Agricultural Land Reserve (ALR).
- The subject site is within the Fraser Highway Corridor Study Area, however staff do not anticipate the densities of the RF-13 Zone (28 uph/11.5 upa) to be exceeded for this site as a result of the Fraser Highway Corridor Stage 1 review. The site is within an established single family residential neighbourhood approximately 1 kilometre (0.6 miles) south of Fraser Highway.
- The site is subject to the Hazard Lands Development Permit Area and Sensitive Ecosystem Development Permit Area requirements of the Official Community Plan (OCP), given the on-site grades and the off-site Class A watercourse and Class B tributary to the southeast.

Current Proposal

- The applicant is proposing to rezone portions of the subject site from "One-Acre Residential Zone (RA)" to "Single Family Residential 13 Zone (RF-13)" in order to allow subdivision into 29 small single family lots, one remnant lot and three (3) park lots.
- The proposed RF-13 lots range in area from 336 square metres (3,617 sq.ft.) to 707 square metres (7,610 sq.ft.) and meet the minimum area (336 square metres) and dimensional (12-metre width/28-metre depth) requirements of the RF-13 Zone.
- The applicant is proposing to retain the existing house and accessory buildings on proposed Lot 27, which will remain zoned RA (1.6 hectares/3.9 acres). The applicant has provided a Location Certificate confirming that the existing structures conform to the requirements of the RA Zone, with the exception of a setback. A Development Variance Permit is required to reduce the minimum front yard setbacks for an existing accessory building (see By-law Variances Section).
- The surrounding neighbourhood is characterized predominantly by single family, RF-zoned lots. The proposed RF-13 lots will be the first small urban lot zoning in this neighbourhood. The proposed lots (Lots 30-33) fronting 80 Avenue exceed the minimum lot width (15 metres / 50 ft.) of the RF Zone and as such will fit the streetscape character of existing homes on 80 Avenue.
- The applicant has provided a concept plan to demonstrate how remnant Lot 27 could develop into RF-13 lots in the future (Appendix IX).

Parkland Considerations

- The proposal includes dedication of two (2) park lots (Lots 19 and 20) over the area encumbered by the Fortis right-of-way, with a combined area of 1,118 square metres (12,032 sq.ft.), amounting to 1.9% of the gross area of the parent property. These lots will provide future west-east connectivity along the utility corridor from Fleetwood Park to William Watson Park.
- Parks, Recreation and Culture have accepted the conveyance of these portions of the parent property to the City as parkland, toward satisfying a portion of the 5% parkland dedication requirements of Section 510 of the <u>Local Government Act</u>. The 5% parkland requirement for proposed remnant Lot 27 will be collected at the time of future subdivision.
- For purposes of calculating the parkland dedication, the park area will be discounted at a rate of 50% since it is encumbered by the Fortis right-of-way. Applying the 50% discount to the encumbered portions results in a total area of 559 square metres (6,017 sq.ft.), representing 1.26% of the gross site area (excluding proposed remnant Lot 27). Parks will accept cash-in-lieu for the remaining 3.74%.
- Parks, Recreation and Culture will accept the riparian area (Lot 1) as parkland, without compensation. A P-15 Agreement is required as a condition of final adoption of the rezoning by-law to facilitate storm upgrades.

Access and Road Dedication

- The completion of 162 Street to 78 Avenue is generally consistent with the concept that was provided as part of Development Application No. 7996-0071-00, which was approved by Council in July 2002, and will provide additional road connectivity in the neighbourhood.
- A traffic circle will be installed at 162 Street and the new 78A Avenue in order to mitigate any sightline issues. Additionally, a Restrictive Covenant will be registered on proposed Lots 10 and 24 to restrict driveway access onto 78A Avenue.
- Proposed Lots 30-33 will have driveway access from 80 Avenue to the north. The applicant will
 be required to complete the construction of 80 Avenue to the Collector Road Standard along
 the site frontage.
- Proposed Lots 21, 22, 28 and 29 will have driveway access from 162 Street to the east. The applicant will be required to complete 162 Street to the Through Local Standard along the site frontage.
- Proposed Lots 2-9 will have driveway access from 78 Avenue. The applicant will be required to complete 78 Avenue to the Through Local Standard along the site frontage.
- Proposed Lots 10-13 and 23 will have driveway access from 78A Avenue. The applicant will be required to complete 78A Avenue to the Through Local Standard along the site frontage.
- Proposed Lots 14-18 and 24-26 will have driveway access from 161B Street. The applicant will be required to complete 161B Street to the Through Local Standard along the site frontage.

Neighbourhood Character Study and Building Scheme

- Mike Tynan, of Tynan Consulting Ltd., prepared the Neighbourhood Character Study and Building Scheme for the subject site. The Character Study involved reviewing a number of existing homes in the neighbourhood in order to establish suitable design guidelines for the proposed subdivision.
- The Character Study found that there are only a few homes in the immediate neighbourhood that could be considered to provide acceptable architectural context for future redevelopment. The guidelines, a summary of which is attached (Appendix V), propose "mid-scale" proportional massing, as well as high trim and construction material standards in line with post-2017 RF-13development standards. Preferred styles for dwellings constructed on the subject site include a "Neo-Traditional", "Neo-Heritage" and compatible forms of "West Coast Contemporary".
- The Design Consultant has incorporated provisions within the Building Scheme for dwellings on proposed Lots 2, 18, 21 and 26 in order to address safety and the overall pedestrian experience within the adjacent existing and proposed parkland:
 - o Fencing along the park boundary (north lot line of proposed Lots 18, 21 and 26, as well as the east lot line of proposed Lot 2) shall be view-permeable with a height of no more than 1.2 metres (4 ft.); and

o Landscaping installed along lot lines shared with existing and proposed parkland to the north and east shall consist solely of species with a mature height of 1.2 metres (4 ft.) or less, in order to protect lines of sight.

Proposed Lot Grading

- Preliminary lot grading plans were prepared and submitted by Coastland Engineering and Surveying Ltd. and the plans have been reviewed by staff and are generally acceptable.
- The applicant is proposing fill in excess of 0.5 metres (1.5 ft.) in depth on portions of lots in order to achieve in-ground basements.
- Basements are proposed for all lots. Final confirmation on whether in-ground basements are
 achievable will be determined once final Engineering drawings have been reviewed and
 accepted by the City's Engineering Department.

Affordable Housing

- 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 \$1,000 per 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.
- As the subject application was instream on April 10, 2018, the contribution does not apply.

PRE-NOTIFICATION

Prenotification letters were sent on October 18, 2018 and a Development Proposal Sign was installed on October 1, 2018. Staff received eight (8) responses with the following concerns (*staff comments in italics*):

• Two residents expressed concern that the RF-13 density was not compatible with the existing neighbourhood, which is predominantly RF-zoned.

(From a land use perspective, rezoning the lots to RF-13 has merit, in consideration of the proximity to Fleetwood Town Centre Plan Area and other local amenities, including parks and schools.

The proposed RF-13 lots will be the first small lot zoning in this neighbourhood. The proposed lots (Lots 30-33) fronting 80 Avenue exceed the minimum lot width (15 metres / 50 ft.) of the RF Zone and as such will fit the streetscape character of existing homes on 80 Avenue.)

• Two residents expressed concern that the construction of the west half of 162 Street and the associated land use would increase traffic volumes which would exacerbate parking issues and would have impacts for residents in terms of noise, privacy and safety.

(That portion of 162 Street abutting the subject site currently consists of a constructed half-road. Staff have always anticipated that the completion of 162 Street to the Through Local Road Standard, including full pavement width, curbs and gutters, grassed boulevards and sidewalks, would occur through dedication and construction associated with the development of the subject site. A traffic circle will be installed at 162 Street and 78A Avenue in order to mitigate any sightline issues. Once 162 Street is completed and in operation, staff may assess the roads suitability for additional traffic calming measures, should it be requested by area residents.

The proposed layout and road alignment is generally in keeping with the concept that was provided as part of Development Application No. 7996-0071-00 to the east, which was approved by Council in July 2002.

All of the lots proposed under Development Application No. 7917-0559-00 will be able to accommodate the minimum required number of off-street parking spaces. The completion of all road frontages will provide additional on-street parking.)

• Two residents expressed concern that the construction of the proposed lots would exacerbate drainage and flooding issues that they are experiencing on their lots.

(The applicant will be required to design proper lot drainage as part of the detailed Engineering design.

Some of the flooding is likely associated with existing storm pipe at the south end of 162 Street, which is too small to handle existing storm flows. As part of the subject application, the applicant will be required to upgrade the existing storm pipe to accommodate post-development flows.)

• One resident expressed concern that the proposed linear park on the Fortis right-of-way will increase crime and graffiti in the neighbourhood.

(The linear park will allow for future pedestrian connectivity along the utility corridor from Fleetwood Park to William Watson Park.

The fencing and landscaping along the park boundaries will be view-permeable with a height of no more than 1.2 metres (4 ft.).)

- Three residents requested further information, which staff provided, but had no concerns.
- The Fleetwood Community Association did not provide comments in response to the prenotification letter.

DEVELOPMENT PERMITS

Hazard Lands (Steep Slopes) Development Permit Area

- The subject property falls within the Hazard Lands (Steep Slope) Development Permit Area (DPA) in the OCP, given that the site contains steep slopes in excess of 20% gradient. The Hazard Land (Steep Slope) Development Permit is required to mitigate developments from hazardous conditions.
- The site slopes gently from north to south with moderately sloping grades at the centre of the site. Relatively steeper grades of up to 45% exist at the southeast end of the site adjacent to the existing watercourse.
- A geotechnical report, prepared by Mehwish Rahman, *P. Eng.*, of GeoPacific Consultants Ltd. and dated July 18, 2018, was reviewed by staff and found to be generally complete, with some modifications to content of the report still required. The finalized geotechnical report will be incorporated into the Development Permit.
- The geotechnical report investigated issues related to slope stability and natural storm water drainage, from a geotechnical perspective, to determine the feasibility of developing the site and proposing recommendations to ensure the ongoing stability of the slope.
- The consultant has determined that the development is feasible provided that the recommendations in their report are incorporated into the overall design of the site, including a 10-metre geotechnical setback from top-of-bank. This geotechnical setback area is within the required 30-metre streamside setback area.

Sensitive Ecosystems (Streamside Area) Development Permit Area

- The subject property falls within the Sensitive Ecosystems Development Permit Area (DPA) for Streamside Areas in the OCP, given the location of the existing off-site Class A (red-coded) and Class B (yellow-coded) watercourses to the southeast of the subject site. The Sensitive Ecosystems (Streamside Areas) Development Permit is required to protect aquatic and terrestrial ecosystems associated with streams from the impacts of development.
- In accordance with Part 7A Streamside Protection setbacks of the Zoning By-law, a Class A stream requires a minimum streamside setback of 30 metres (98 ft.) and a Class B stream requires a minimum streamside setback of 15 metres (50 ft.), as measured from the top of bank. The applicant is proposing to utilize the flex provision in the Zoning By-law. The applicant is proposing a net gain of 30 square metres (323 sq.ft.) of riparian area (Appendix VIII).
- The riparian area is proposed to be conveyed to the City as Lot 1 as a condition of rezoning approval.
- Parks, Recreation and Culture will accept the riparian area as parkland, without compensation. A P-15 Agreement is required as a condition of final adoption of the rezoning by-law to facilitate storm upgrades that are required in the area.

• An Ecosystem Development Plan, prepared by Tracy Anderson, *R.P. Bio.*, of Envirowest Consultants Inc. and dated May 13, 2019 was reviewed by staff and found to be generally acceptable, with some modifications to content and format of the report still required. The finalized report and recommendations will be incorporated into the Development Permit.

TREES

• Trevor Cox, ISA Certified Arborist of Diamond Head Consulting prepared an Arborist Assessment for the subject property. The table below provides a summary of the tree retention and removal by tree species:

Table 1: Summary of Tree Preservation by Tree Species:

| Tree Species | Exis | ting | Remove | Retain |
|--|------------------------------|------------|-------------------------|--------|
| Alder and Cottonwood Trees | | | | |
| Alder | 17 | ' 2 | 172 | 0 |
| Cottonwood | 2 | 3 | 20 | 3 |
| (excluding | Decidu o Alder and | | s wood Trees) | |
| Plum | 2 | 2 | 1 | 1 |
| Cherry | 2 | 2 | 1 | 1 |
| Locust | 2 | 2 | 1 | 1 |
| Maple | 2 | 2 | 14 | 8 |
| Hazelnut |] | L | 1 | 0 |
| Birch |] | L | 1 | 0 |
| Walnut |] | L | 1 | 0 |
| Horsechesnut | 2 | 2 | 0 | 2 |
| Hawthorn |] | L | 0 | 1 |
| | Conifero | us Tree | es | |
| Cedar 8 | | 3 | 5 | 3 |
| Douglas Fir | 5 |) | 2 | 3 |
| Cedrus | | | 0 | 1 |
| Total (excluding Alder and Cottonwood Trees) 4 | | 8 | 27 | 21 |
| Additional Trees in the proposed Riparian Area | | 6 | 26 | 40 |
| Total Replacement Trees Prope (excluding Boulevard Street Trees | 69 | | | |
| Total Retained and Replacement Trees | | 90 | | |
| Contribution to the Green City | \$70,800 | | | |

• The Arborist Assessment states that there is a total of 48 protected trees on the site, excluding Alder and Cottonwood trees. One hundred and ninety-five (195) existing trees, approximately 80% of the total trees on the site, are Alder and Cottonwood trees. It was determined that 24 trees can be retained 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.

- Table 1 includes an additional 66 protected trees that are located within the proposed riparian area. The trees within the proposed riparian area will be retained, except where removal is required due to hazardous conditions or to complete required storm upgrades. This will be determined at a later time, in consultation with the Parks, Recreation and Culture Department.
- A detailed planting plan prepared by a Registered Professional Biologist (R.P. Bio.) and an associated P-15 agreement are required for the monitoring and maintenance of the proposed trees to be planted in the conveyed riparian area.
- 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 total of 246 replacement trees on the site. Since only 69 replacement trees can be accommodated on the site (based on an average of 3 trees per lot), the deficit of 177 replacement trees will require a cash-in-lieu payment of \$70,800 representing \$400 per tree, to the Green City Fund, in accordance with the City's Tree Protection By-law.
- In addition to the replacement trees, boulevard street trees will be planted on 8o Avenue, 162 Street, 78 Avenue, 161B Street and 78A Avenue. This will be determined by the Engineering Department during the servicing design review process.
- In summary, a total of 90 trees are proposed to be retained or replaced on the site with a contribution of \$70,800 to the Green City Fund.

SUSTAINABLE DEVELOPMENT CHECKLIST

The applicant prepared and submitted a sustainable development checklist for the subject site on December 6, 2017. The table below summarizes the applicable development features of the proposal based on the seven (7) criteria listed in the Surrey Sustainable Development Checklist.

| Sustainability | Sustainable Development Features Summary |
|-----------------------------------|---|
| Criteria | |
| 1. Site Context & | Adjacent to the Fleetwood Town Centre Plan Area. |
| Location | • 1 kilometre from Fraser Highway. |
| (A1-A2) | |
| 2. Density & Diversity | Consistent with the Urban designation in the Official Community |
| (B1-B7) | Plan. |
| | One secondary suite is permitted in each future home. |
| 3. Ecology & | The applicant is dedicating the riparian area associated with the |
| Stewardship | Class A and Class B watercourses to the south east of the site. |
| (C ₁ -C ₄) | |

| Sustainability | Sustainable Development Features Summary |
|-----------------------------------|--|
| Criteria | |
| 4. Sustainable | None proposed. |
| Transport & | |
| Mobility | |
| (D ₁ -D ₂) | |
| 5. Accessibility & | • The fencing and landscaping along the park boundaries will be |
| Safety | view-permeable with a height of no more than 1.2 metres (4 ft.). |
| (E1-E3) | |
| 6. Green Certification | • None proposed. |
| (F ₁) | |
| 7. Education & | None proposed. |
| Awareness | |
| (G1-G4) | |

BY-LAW VARIANCE AND JUSTIFICATION

(a) Requested Variance:

• To reduce the minimum front yard setback of the RA Zone from 18 metres (59 ft.) to 4.1 metres (13 ft.) for an existing accessory building on proposed Lot 27.

Applicant's Reasons:

• The minimum front yard setback is proposed to be reduced to retain an existing accessory structure (shed) as part of the proposed development.

Staff Comments:

- The home on the subject site is currently addressed from 8o Avenue.
- The existing home and accessory structures will remain on proposed remnant Lot 27, which will remain zoned RA. Proposed Lot 27 will be addressed from 162 Street.
- The existing shed is located 4.1 metres (13 ft.) from the new front lot line (east) of proposed Lot 27 and will not impact the functionality of the yard space.
- The proposed variance will only apply to the existing shed and new construction will be subject to the minimum requirements of the RA Zone.
- Staff support the requested variance.

INFORMATION ATTACHED TO THIS REPORT

The following information is attached to this Report:

Appendix I. Project Data Sheets and Survey Plan

Appendix II. Proposed Subdivision Layout

Appendix III. Engineering Summary
Appendix IV. School District Comments

Appendix V. Building Design Guidelines Summary

Appendix VI. Summary of Tree Survey and Tree Preservation Appendix VII. Development Variance Permit No. 7917-0559-00

Appendix VIII. Streamside Setbacks

Appendix IX. Concept Plan

original signed by Ron Gill

Jean Lamontagne General Manager Planning and Development

LM/cm

SUBDIVISION DATA SHEET

Proposed Zoning: RF-13 & RA

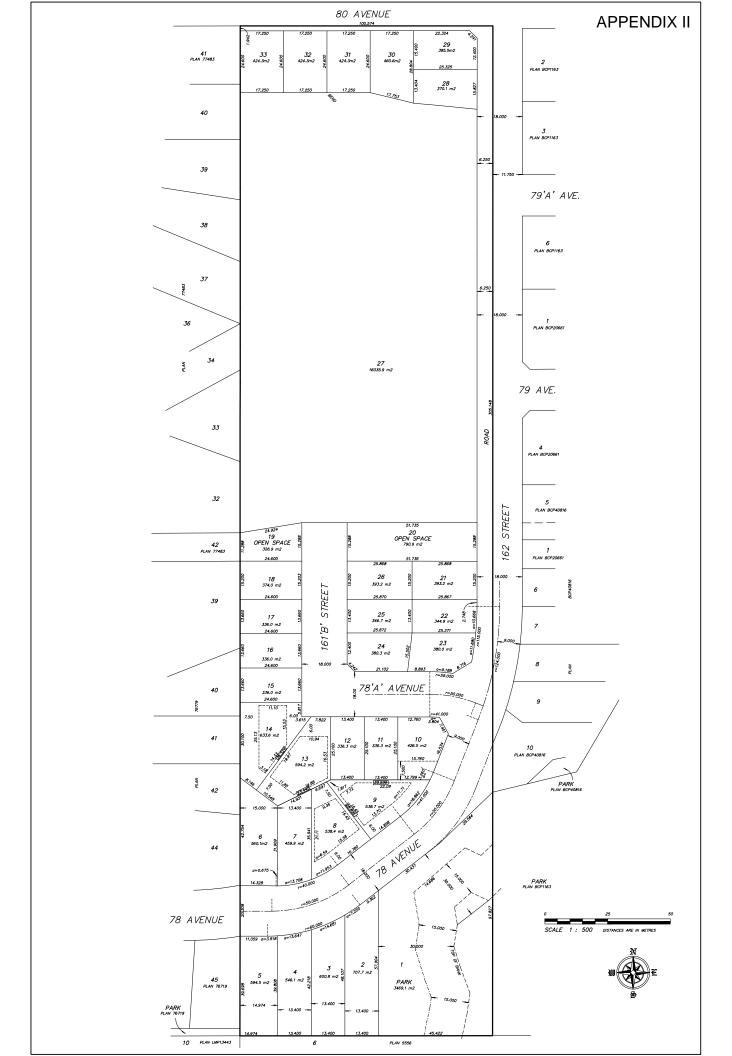
| Requires Project Data | Proposed |
|--|---------------------------------------|
| GROSS SITE AREA | Tioposcu |
| Acres | 6.o hectares |
| Hectares | 14.9 acres |
| 110000100 | 1-T1-7 WELLES |
| NUMBER OF LOTS | |
| Existing | 1 |
| Proposed | 29 RF-13, 1 remnant RA & 3 Park lots |
| | |
| SIZE OF LOTS | |
| Range of lot widths (metres) | 13.4 m - 17.25 m |
| Range of lot areas (square metres) | 336 m² - 707 m² |
| | |
| DENSITY | |
| Lots/Hectare & Lots/Acre (Gross) | 4.8 uph & 1.9 upa |
| Lots/Hectare & Lots/Acre (Net) | 22 uph & 9 upa |
| | |
| SITE COVERAGE (in % of gross site area) | |
| Maximum Coverage of Principal & | 31.1% |
| Accessory Building | 0/ |
| Estimated Road, Lane & Driveway Coverage | 13.4% |
| Total Site Coverage | 44.5% |
| PARKLAND | |
| Area (square metres) | 1,118 m² |
| % of Gross Site | 1,110 111 |
| 70 01 G1055 SILE | 1.970 |
| | Required |
| PARKLAND | Required |
| 5% money in lieu | YES |
| j/o monej m neu | 120 |
| TREE SURVEY/ASSESSMENT | YES |
| 11.22 5 5 11,1 25 255 11.21 11 | |
| MODEL BUILDING SCHEME | YES |
| | · · · · · · · · · · · · · · · · · · · |
| HERITAGE SITE Retention | NO |
| | |
| FRASER HEALTH Approval | NO |
| A A | |
| DEV. VARIANCE PERMIT required | |
| Road Length/Standards | NO |
| Works and Services | NO |
| Building Retention | NO |
| Setbacks for Accessory Structure | YES |

BLOCK SURVEY PLAN TO ACCOMPANY CITY OF SURREY REZONING BYLAW NO: _ PART OF WEST HALF LOT 4 SECTION 24 TOWNSHIP 2 NEW WESTMINSTER DISTRICT PLAN 5556 SCALE 1: 900 DISTANCES ARE IN METRES THE INTENDED PLOT SCALE OF THIS PLAN IS 560 mm IN WIDTH BY 864 mm IN HEIGHT (D SIZE) WHEN PLOTTED AT A SCALE OF 1:900. INTEGRATED SURVEY AREA No. 1, SURREY, NAD83(CSRS) 4.0.0.BC.1.GVRD

80th **AVENUE** 100.574 89'58'56" AREA = 2886.1m2 **BLOCK I 2** PLAN BCP1163 PLAN 77483 31066 sf 0.713 Ac 89'58'56' 95'26'46 40 PLAN BCP1163 39 79A AVENUE 38 PLAN BCP1163 37 164.114 Sec. 24 1 PLAN BCP40816 36 34 WEST HALF LOT 4 79 AVENUE STREET 33 PLAN BCP40816 162nd 32 PLAN BCP40816 16907 80 SRW PLAN 16907 **42** PLAN 77483 SRW PLAN PLAN BCP20661 SRW LINE 6 39 7 8 40 **BLOCK II** 41 10 PLAN BCP40816 AREA = 20499.5m2 2.050 ha 220655 sf 5.066 Ac 42 PARK PLAN BCP40816 44 Tp. 2 PARK PLAN BCP1163 78th AVENUE 45 PARK PLAN 76719 PARK PLAN LMP13443 6 PLAN 5556

CERTIFIED CORRECT THIS 15th DAY OF MAY, 2019

all GARY SUNDVICK





INTER-OFFICE MEMO

TO:

Manager, Area Planning & Development

- North Surrey Division

Planning and Development Department

FROM:

Development Engineer, Engineering Department

DATE:

Jun 05, 2019

PROJECT FILE:

7817-0559-00

RE:

Engineering Requirements Location: 16174 80 Avenue

REZONE/SUBDIVISION

Property and Right-of-Way Requirements

- Dedicate 1.942m on 80 Ave for ultimate 12.0 m Collector Road allowance from centre line.
- Dedicate 3.0 m by 3.0 m corner cut at the intersection of 80 Avenue and 162 Street.
- Dedicate necessary lands on 162 Street and 78 Avenue to secure ultimate 18.0 m wide Through Local Road allowance.
- Dedicate 6.0 m by 6.0 m corner cuts at the intersection of 162 Street and 78A Avenue.
- Dedicate 18.0 m for 78A Avenue and 161B Street for the Through Local Road allowance.
- Dedicate 3.0 m by 3.0 m corner cut at the intersection of 78A Avenue and 161A Street.
- Register 0.5 m SRW along all frontages where sidewalk is located adjacent to property line.
- Register SRW over the section of 1050 mm storm trunk that passes through the Park land.

Works and Services

- Reconstruct 1.8 m wide concrete sidewalk on 80 Avenue adjacent to property line; ensure 12.2m existing pavement, and adequate street lighting; upgrade if required.
- Construct 162 Street, 78 Avenue, 78A Avenue and 161B Street to the Through Local Road standard with 8.5 m pavement width.
- Construct traffic circle at 78A Avenue and 162 Street to mitigate sightline issues.
- Construct the ultimate east curb and boulevard fronting 7838-7858 162 Street.
- Construct temporary turnaround at the end of 161B Street due to interim dead-end.
- Provide storm water calculation to confirm downstream storm system capacity.
- Construct storm sewers on all new roads to service the proposed lots and drain the roads.
- Abandon/decommission existing temporary 300 mm PVC outlet pipe on 162 Street.
- The storm servicing is proposed to be routed through the riparian area. The applicant will be required to provide detailed design for the proposed pipe and headwall within the riparian area, and to demonstrate how erosion and other concerns are being addressed.
- Maintain base flows to the Class B watercourse.
- The proposed temporary 1050 mm outlet pipe into the Class A creek will require Water Act Notification.
- Provide onsite sustainable drainage works to meet the stormwater management requirements outlined in the Fleetwood-Greenway-North Creek ISMP.

NOTE: Detailed Land Development Engineering Review available on file

- Perform sewer analysis to confirm sanitary servicing for the proposed development, including feasibility to connect to existing sanitary main on 78 Avenue.
- Subject to available funding, the applicant will be required to decommission the existing 162 St SS Sanitary Lift Station and discharge any associated SRWs at the City's expense.
- Construct minimum 200 mm sanitary mains on all new roads.
- Pay Water and Sanitary Latecomers charges relative to projects #7807-0042-00.

A Servicing Agreement is required prior to Rezone/Subdivision.

DEVELOPMENT PERMIT/DEVELOPMENT VARIANCE PERMIT

There are no engineering requirements relative to issuance of the Development Permit/ Development Variance Permit except for the requirements listed above.

Tommy Buchmann, P.Eng. Development Services Manager

IK₁



May 15, 2019

Planning

THE IMPACT ON SCHOOLS

APPLICATION #:

17 0559 00 (Updated May 15, 2019)

SUMMARY

Elementary Students:

The proposed are estimated to have the following impact on the following schools:

29 Single family with suites

15

Projected # of students for this development:

| Secondary Students: | 7 |
|--|------------|
| September 2018 Enrolment/School Capacity | |
| William Watson Elementary | |
| Enrolment (K/1-7): | 34 K + 356 |
| Operating Capacity (K/1-7) | 76 K + 256 |
| Fleetwood Park Secondary | |
| Enrolment (8-12): | 1523 |
| Canacity (8-12) | 1200 |

School Enrolment Projections and Planning Update:

The following tables illustrate the enrolment projections (with current/approved ministry capacity) for the elementary and secondary schools serving the proposed development.

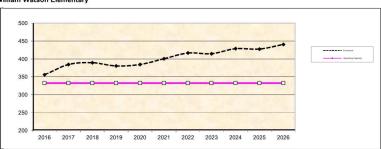
William Watson Elementary is currently over capacity. Rapid enrolment growth is expected into the foreseeable future with the continued construction of The Enclave. With the Eaglequest Golf Course approved housing development and the potential to increase housing density to serve the potential Skytrain extension along Fraser Highway, both will play a significant role in impacting enrolment in future years. As of September 2018, the school has 2 portables on site for enrolling space. It is anticipated more portables will be placed on the site in the coming years.

With 152nd Street to the west, Fraser Highway to the North and the ALR to the south, the Fleetwood area is contained within these barriers. Three elementary schools and one Secondary serve this community. The elementary schools consist of: William Watson, Walnut Road and Coyote Creek. As both 152nd and Fraser Highway are major arterial roads, catchments have been created to ensure families/children do not have to cross such major roadways for safety reasons. Therefore, all new enrolling spaces constructed to relieve pressure in the Fleetwood area must fall within the Fleetwood boundaries as described.

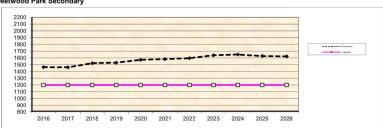
Currently, William Watson Elementary is operating at 120% and is projected to grow to 130% in 2025. As part of the Surrey School District's 2019/2020 Capital Plan submission to the Ministry of Education, the District is requesting a 100 capacity at Coyote Creek and a 300 capacity addition at William Watson to relieve the short term pressure in the Fleetwood Area. (The addition to William Watson has not been approved by the Ministry to move to design and construction) The District is considering the need to build another future elementary school in the area to accommodate longer term demand.

Fleetwood Secondary total enrollment, as of September 2018, is 1523 and is projected to grow to over 1600 over the next 10 years. As part of the district's 2019/2020 5 Year Capital Plan, the District is asking for a 300 capacity addition targeted to open in 2024. There has been no approval for this project at this time.

William Watson Elementary



Fleetwood Park Secondary



^{*} Nominal Capacity is estimated by multiplying the number of enrolling spaces by 25 students.

Maximum operating capacity is estimated by multipying the number of enrolling spaces by 27 students.

BUILDING GUIDELINES SUMMARY

Surrey Project no: 17-0559-00

Project Location: 16174 and 16180 - 80 Avenue, Surrey, B.C. Design Consultant: Tynan Consulting Ltd., (Michael E. Tynan)

The draft Building Scheme proposed for this Project has been filed with the City Clerk. The following is a summary of the Residential Character Study and the Design Guidelines which highlight the important features and form the basis of the draft Building Scheme.

1. Residential Character

1.1 General Description of the Existing and/or Emerging Residential Character of the Subject Site:

The subject site is a single large RA zoned lot, spanning from 78 Avenue at the south to 80 Avenue the north. It is intersected on the east side by 79 Avenue and by 79A Avenue, and is intersected on the west side by 78 Avenue. As a result, there are three neighbourhoods constructed in different eras, each with a different character, that will be joined by development of this site.

There are three distinct character areas including the 16100 and 16200 blocks of 80 Avenue, the 7800 and 7900 blocks of 162 Street, and the 16100 block of 78 Avenue. The first of these, along 80 Avenue, has considerable variation in theme and character due to the wide era of construction (1970's to the post year 2010's). The style of most homes can be described as "Neo-Traditional", "West Coast Traditional", or "old urban". There are two Basement Entry type homes with desirable mid-scale massing characteristics. There is one 1970's Cathedral Entry home with box-like massing. There are two 1990's, 3500 sq.ft. Two-Storey homes that provide acceptable context. There are four context homes (16151, 16177, 16185, and 16197 - 80 Avenue), one at 2600 sq.ft. and the others 3000 sq.ft. These homes meet modern massing design standards, in which homes have mid-scale massing designs that area well balanced and consistently proportioned. These homes have 8:12 main common hip roofs with three or more street facing common gable projections at a 12;12 slope. Roofs are surfaced with shake profile asphalt shingles. Gable ends are articulated with shingles or other wood detailing. Homes are clad with Hardiplank (or other fibre cement board) at the front and vinyl siding at the sides and rear, and all have a substantial stone accent.

The second character area, located along the 7800 and 7900 blocks of 162 Street contains homes regulated under Surrey project numbers 96-0071-00 and 07-0042-00. These homes are 10 - 20 year old, 2900 sq.ft. "Neo-Traditional" and "Neo-Heritage" Two style homes, all with acceptable midscale massing designs. Front entrances range from one to 1.1/2 storeys in height. Roof slopes range from 8:12 to 12:12, with the exception of two homes with a 16:12 slope. Thirty percent of these homes have an asphalt shingle roof and 70 percent are surfaced with concrete roof tiles. Wall cladding materials include vinyl, stucco, Hardiplank, wood shingles, and stone. Landscape quality is average to above average for post year 2000's developments.

The third character area, in the 16100 block of 78 Avenue, contains 1980's - 1990's, 2800 - 3500 sq.ft. Two-Storey and Basement Entry type homes. Massing designs are mid-scale and area considered common for the era of construction. Roof slopes range from 4:12 to 7:12, with the exception of one home with 12:12 slope feature projection. All of these homes have an asphalt shingle roof, and all are clad in vinyl siding, some with masonry accent and some without. Landscapes range from "modest" to above average.

1.2 Features of Surrounding Dwellings Significant to the Proposed Building Scheme:

- 1) <u>Context Homes:</u> There are a few homes in this area that could be considered to provide acceptable architectural context. However, massing design, construction materials, and trim and detailing standards for new homes constructed in RF-13 zone subdivisions now meet or exceed standards evident on most of the context homes. The recommendation therefore is to adopt standards commonly found in post year 2017 RF-13 zoned subdivisions, rather than to emulate specific components of the aforesaid context homes
- 2) <u>Style Character</u>: There are a mix of old urban and modern urban styles in this neighbourhood, including "Neo-Traditional", "Neo-Heritage", "West Coast Traditional", and "old urban". Preferred styles for this site include "Neo-Traditional", "Neo-Heritage", and compatible styles including compatible manifestations of the "West Coast Contemporary" style as determined by the consultant, that provide a style bridge between old urban and modern urban. Note that style range is not restricted in the building scheme. However, the consultant refers to the character study when reviewing plans for meeting style-character intent.
- 3) <u>Home Types:</u> There are a wide range of home types evident, and so some flexibility is justified. Home type (Two-Storey, Bungalow, Basement Entry, Split Level, etc..) will not be regulated in the building scheme.
- 4) <u>Massing Designs</u>: Massing designs should meet new standards for RF-13 zoned subdivisions. New homes should exhibit "mid-scale" massing. Various elements and projections on the front of the home should be interesting architecturally, and should be in pleasing natural proportions to one another. These elements and projections should be located so as to create balance across the façade.
- 5) <u>Front Entrance Design</u>: Front entrance porticos range from one to 1½ storeys in height. The recommendation is to limit the range of entrance portico heights to between one storey and 1½ storeys to ensure there is not proportional overstatement of this one element.
- 6) <u>Exterior Wall Cladding</u>: A wide range of cladding materials have been used in this area, including vinyl, cedar, aluminum, stucco, fibre cement board, brick, and stone. Reasonable flexibility should therefore be permitted, including the use of vinyl siding, provided the overall quality of wall cladding materials meets or exceeds common standards for post 2017 developments.
- Roof surface: Roof surfacing materials used in this area include concrete roof tiles and asphalt shingles. Some flexibility in roof surface materials is warranted. The recommendation is to permit cedar shingles, shake profile concrete roof tiles, shake profile asphalt shingles with a raised ridge cap, and new environmentally sustainable roof products that have a strong shake profile. Where required by the BC Building Code for lower slope applications membrane roofing products can be permitted subject to consultant approval. Small decorative metal roofs should also be permitted.
- 8) Roof Slope: The recommendation is to set the minimum roof slope at 6:12. Steeper slopes will be encouraged, especially on street facing roof projections. However, a relatively low 6:12 slope may be required to meet maximum height as specified in the RF-13 bylaw. A provision is also recommended to allow slopes less than 6:12 where it is determined by the consultant that the design is of such high architectural integrity that the roof slope reduction can be justified, or that lower slopes are needed on feature projections or at the front entrance veranda to ensure upper floor windows can be installed without interference with the roof structure below.

Streetscape:

There are a wide variety of architectural styles, and home types, massing designs, roof slopes, roofing materials, cladding materials, and trim and detailing standards due to the wide era of construction (1970's to post year 2010's). Styles include "Neo-Traditional", "Neo-Heritage", "West Coast Traditional" and "Old Urban". Home types include Two-Storey (dominant), Basement Entry, and Cathedral Entry. Most homes have desirable mid-scale massing characteristics, but there are high mass box-like homes in the area. Front entrances range from one to 1 ½ storeys in height. Roof slopes range from 4:12 to 16:12, and roofing materials include only asphalt shingles and shake profile concrete roof tiles. Cladding materials include vinyl, stucco, cedar, fibre cement board, and stone. Landscapes range from "modest" to above-average for the era of construction.

2. Proposed Design Guidelines

2.1 Specific Residential Character and Design Elements these Guidelines Attempt to Preserve and/or Create:

- the new homes are readily identifiable as one of the following styles: "Traditional", "Heritage", "Neo-Traditional", "Neo-Heritage", compatible forms of "West Coast Contemporary", or other compatible styles with appropriate transitions in massing and character, as determined by the design consultant. Note that the proposed style range is not contained within the building scheme, but is contained within the residential character study which forms the basis for interpreting building scheme regulations.
- a new single family dwelling constructed on any lot meets year 2017's design standards, which
 include the proportionally correct allotment of mass between various street facing elements, the
 overall balanced distribution of mass within the front facade, readily recognizable style-authentic
 design, and a high trim and detailing standard used specifically to reinforce the style objectives
 stated above.
- trim elements will include several of the following: furred out wood posts, articulated wood post bases, wood braces and brackets, louvered wood vents, bold wood window and door trim, highly detailed gable ends, wood dentil details, stone or brick feature accents, covered entrance verandas and other style-specific elements, all used to reinforce the style (i.e. not just decorative).
- the development is internally consistent in theme, representation, and character.
- the entrance element will be limited in height (relative dominance) to 1 to 1 ½ storeys.

2.2 Proposed Design Solutions:

Interfacing Treatment with existing dwellings)

There are homes in this area that could be considered to provide acceptable architectural context. However, massing design, construction materials, and trim and detailing standards for new homes constructed in most new (post year 2017) RF13 zone subdivisions now exceed standards evident on the context homes. The recommendation therefore is to adopt standards commonly found in post year 2017 RF13 zoned subdivisions, rather than to specifically emulate the aforesaid two context homes.

Exterior Materials/Colours:

Stucco, Cedar, Vinyl, Fibre-Cement Board, Brick, and Stone. Vinyl limited to maximum 25% of wall area on the front façade.

"Natural" colours such as browns, greens, clays, and other earth-tones, and "Neutral" colours such as grey, white, and cream are permitted. "Primary" colours in subdued tones such as navy blue, colonial red, or forest green can be considered providing neutral trim colours are used, and a comprehensive colour scheme is approved by the consultant. "Warm" colours such as pink, rose, peach, salmon are not permitted. Trim colours: Shade variation of main colour, complementary, neutral, or subdued contrast only.

Roof Pitch:

Minimum 6:12, with exceptions to prevent roof ridges from becoming too high (overshadowing of neighbouring lots), to allow for veranda roofs that do not cover upper floor windows, to allow for artistic expression in feature roofs, and to provide a path for exceptional designs with lower slope roofs to be approved subject to consultant approval.

Roof Materials/Colours:

Cedar shingles, shake profile concrete roof tiles, shake profile asphalt shingles with a raised ridge cap, and new environmentally sustainable roofing products should be permitted, providing that the aesthetic properties of the new materials are equal to or better than that of the traditional roofing products. Greys, black, or browns only. Membrane roofs permitted where required by B.C. Building Code, and small metal feature roofs also permitted.

In-ground basements:

In-ground basements are subject to determination that service invert locations are sufficiently below grade to permit a minimum 50 percent in-ground basement to be achieved. If achievable, basements will appear underground from the front.

Treatment of Corner Lots:

Significant, readily identifiable architectural features are provided on both the front and flanking street sides of the dwelling, resulting in a home that architecturally addresses both streets. One-storey elements on the new home shall comprise a minimum of 40 percent of the width of the front and flanking street elevations of the single family dwelling. The upper floor is set back a minimum of 0.9 metres [3'- 0"] from the one-storey elements.

Landscaping:

Moderate modern urban standard: Tree planting as specified on Tree Replacement Plan plus minimum 20 shrubs of a minimum 3 gallon pot size. Corner lots shall have an additional 10 shrubs of a minimum 3 gallon pot size, planted in the flanking street sideyard. Sod from street to face of home. Driveways: exposed aggregate, interlocking masonry pavers, stamped concrete, or coloured concrete in dark earth tones or medium to dark grey only.

Park:

There is a public park adjacent to the east *lot* line on *lot* 2, and the north lot line on lots 18, 21, and 26. CPTED principles will therefore apply, in which low (4 ft. max.) transparent type fencing with dwarf shrubs are installed along the park interface to provide opportunities for passive surveillance of the park by residents. Also, windows are required in high traffic rooms on said sides of the dwelling to provide unrestricted views of the park. Lastly, due to the constant exposure to the public, the massing design and finishing quality on park facing sides of the dwelling should result in a thoughtfully designed and articulated interface to present to the public.

Compliance Deposit: \$5,000.00

Summary prepared and submitted by: Tynan Consulting Ltd. Date: May 15, 2019

Reviewed and Approved by: Mulaul Date: May 15, 2019

4.0 Tree Preservation Summary

Table 5: City of Surrey tree preservation summary table for on-site and off-site trees, including the number of replacement trees proposed.

Surrey Project Number: 17-0559

Site Address: 16174, 16180 and 7882 162 Street Registered Arborist: Michael Harrhy (PN-8025A)

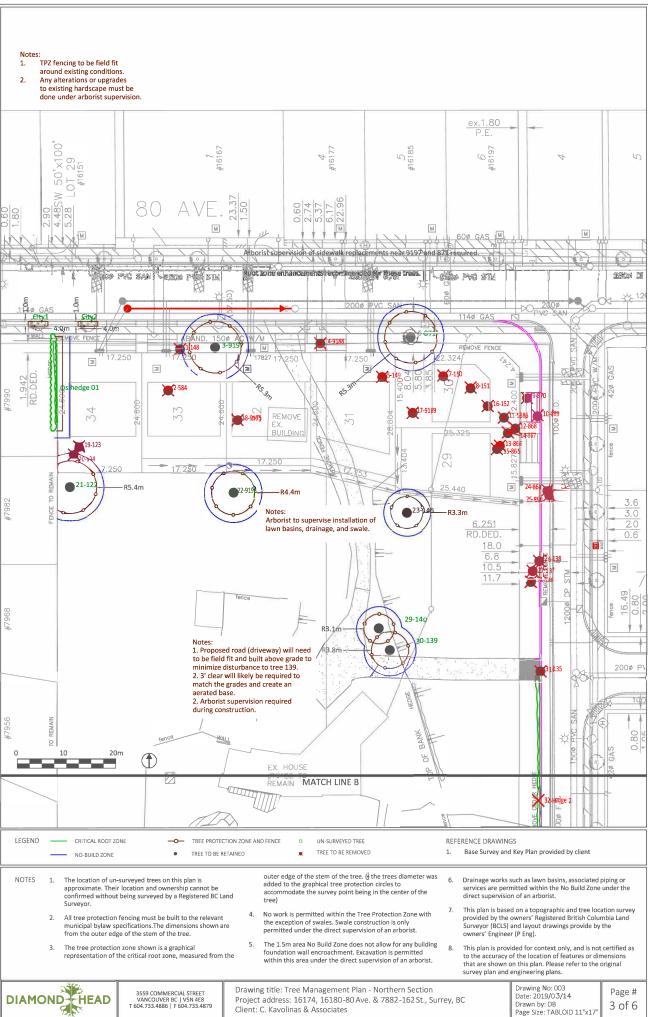
| On-Site Trees | Number of Trees |
|--|-----------------|
| Protected Trees Identified | 243 |
| (On-site and shared trees, including trees within boulevards and proposed streets and lanes, but excluding trees in proposed open space or riparian areas) | |
| Protected Trees to be Removed | 219 |
| Protected Trees to be Retained | 24 |
| (excluding trees within proposed open space or riparian areas) | |
| Total Replacement Trees Required: | |
| - Alder & Cottonwood Trees Requiring 1 to 1 Replacement Ratio | |
| 192 X one (1) = 192 | 246 |
| - All other Trees Requiring 2 to 1 Replacement Ratio | |
| 27 X two (2) = 54 | |
| Replacement Trees Proposed | 69 |
| Replacement Trees in Deficit | 177 |
| Protected Trees to be Retained in Proposed Open Space / Riparian Areas | 40 |

| | C | Off-Site | Trees | Number of Trees |
|--|---------------|----------|----------------------------|-----------------|
| Protected Off-Site Trees to be Removed | | 0 | | |
| Total Replacement Trees Re | quired: | | | |
| - Alder & Cottonwo | ood Trees Re | equiring | g 1 to 1 Replacement Ratio | |
| x | one (1) | = | 0 | 0 |
| - All other Trees Re | equiring 2 to | 1 Repl | acement Ratio | |
| х | two (2) | = | 0 | |
| Replacement Trees Propose | d | | | 0 |
| Replacement Trees in Deficit | | 0 | | |

Summary, report and plan prepared and submitted by

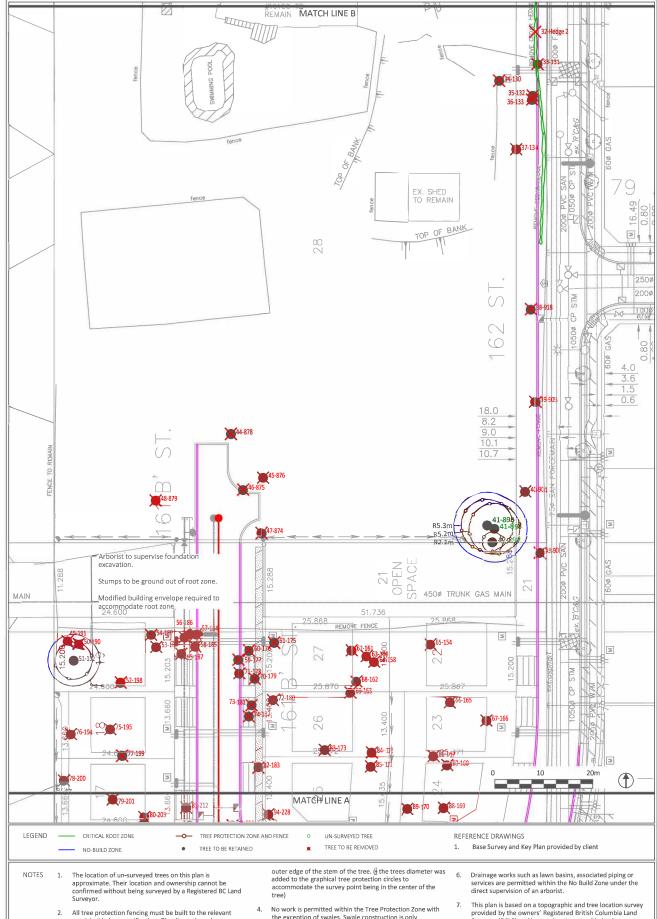
February 28, 2019

Signature of Arborist Date



Client: C. Kavolinas & Associates

Drawn by: DB Page Size: TABLOID 11"x17"

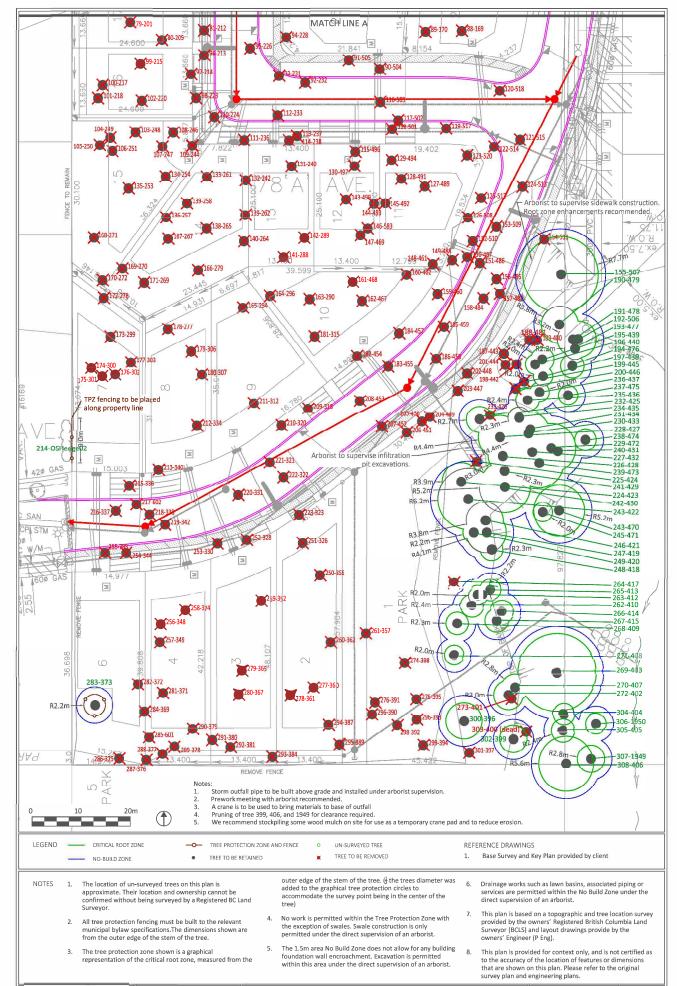


- municipal bylaw specifications. The dimensions shown are from the outer edge of the stem of the tree.
- The tree protection zone shown is a graphical representation of the critical root zone, measured from the
- the exception of swales. Swale construction is only permitted under the direct supervision of an arborist.
- The 1.5m area No Build Zone does not allow for any building foundation wall encroachment. Excavation is permitted within this area under the direct supervision of an arborist.
- This plan is based on a topographic and tree location survey provided by the owners' Registered British Columbia Land Surveyor (BCLS) and layout drawings provide by the owners' Engineer (P Eng).
- This plan is provided for context only, and is not certified as to the accuracy of the location of features or dimensions that are shown on this plan. Please refer to the original survey plan and engineering plans.



Drawing title: Tree Management Plan - Central Section 3559 COMMERCIAL STREET VANCOUVER BC | V5N 4E8 T 604.733.4886 | F 604.733.4879 Project address: 16174, 16180-80 Ave. & 7882-162 St., Surrey, BC Client: C. Kavolinas & Associates Drawing No: 002 Date: 2019/03/14 Drawn by: DB Page Size: TABLOID 11"x17"

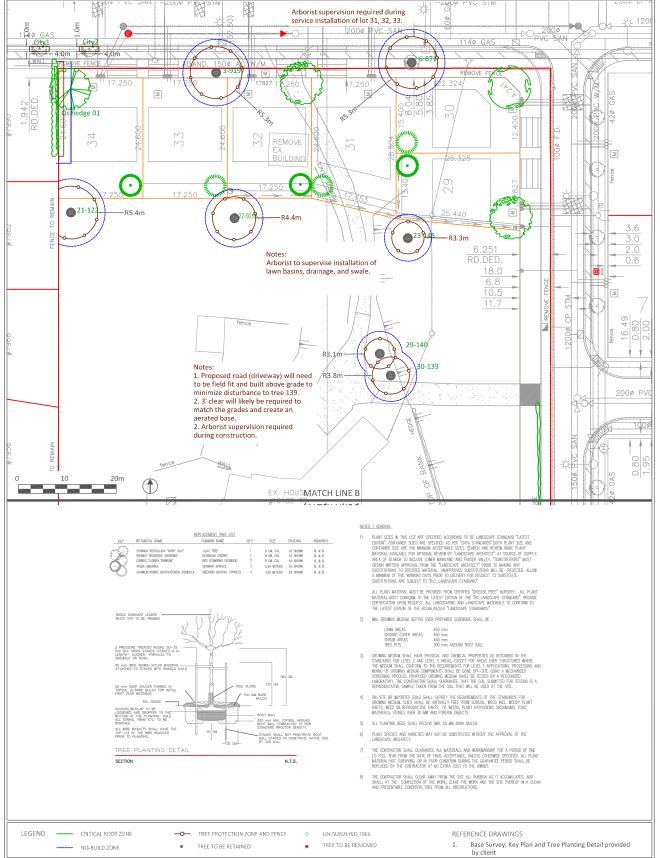
Page # 2 of 6



DIAMOND HEAD 3559 COMMERCIAL STREET VANCOUVER BC | VSN 4E8 T 604.733.4886 | F 604.733.4879

Drawing title: Tree Management Plan - Southern Section Project address: 16174, 16180-80 Ave. & 7882-162 St., Surrey, BC Client: C. Kavolinas & Associates Drawing No: 002 Date: 2019/03/14 Drawn by: DB Page Size: TABLOID 11"x17"

Page # 1 of 6



outer edge of the stem of the tree. ($\frac{1}{2}$ the trees diameter was added to the graphical tree protection circles to accommodate the survey point being in the center of the tree)

- No work is permitted within the Tree Protection Zone with the exception of swales. Swale construction is only permitted under the direct supervision of an arborist.
- The 1.5m area No Build Zone does not allow for any building foundation wall encroachment. Excavation is permitted within this area under the direct supervision of an arborist.
- The location of un-surveyed trees on this plan is approximate. Their location and ownership cannot be confirmed without being surveyed by a Registered BC Land
 On the surveyed BC Land
 On
- 2. All tree protection fencing must be built to the relevant municipal bylaw specifications. The dimensions shown are from the outer edge of the stem of the tree.
- The tree protection zone shown is a graphical representation of the critical root zone, measured from the

- Drainage works such as lawn basins, associated piping or services are permitted within the No Build Zone under the direct supervision of an arborist.
- This plan is based on a topographic and tree location survey provided by the owners' Registered British Columbia Land Surveyor (BCLS) and layout drawings provide by the owners' Engineer (P Eng).
- This plan is provided for context only, and is not certified as to the accuracy of the location of features or dimensions that are shown on this plan. Please refer to the original survey plan and engineering plans.

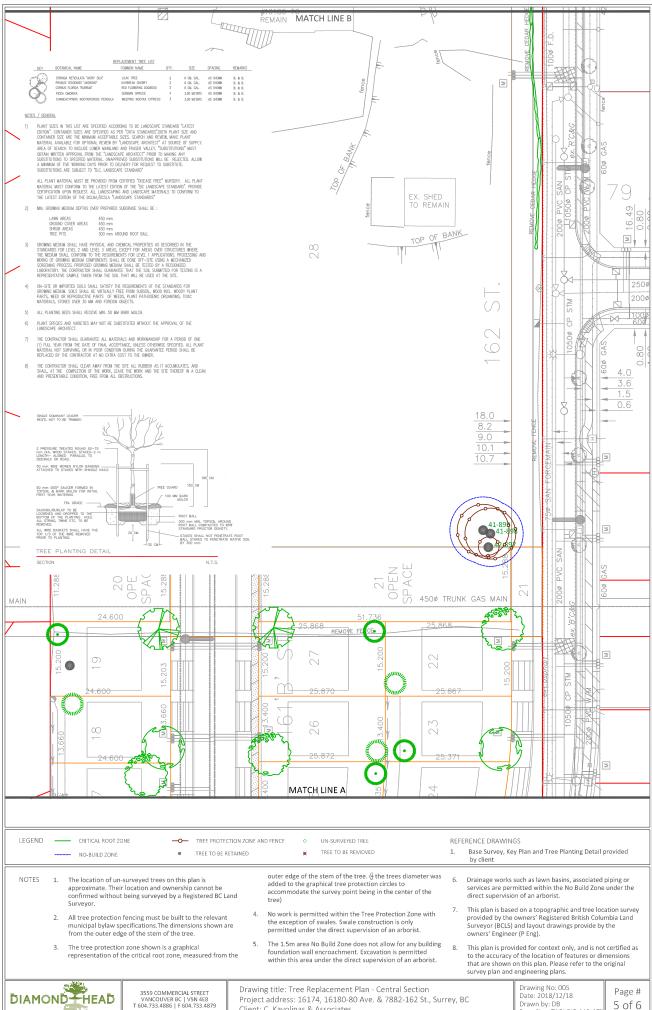


NOTES

Drawing title: Tree Replacement Plan - Northern Section Project address: 16174, 16180-80 Ave. & 7882-162 St., Surrey, BC Client: C. Kavolinas & Associates

Drawing No: 006 Date: 2018/12/18 Drawn by: DB Page Size: TABLOID 11"x17

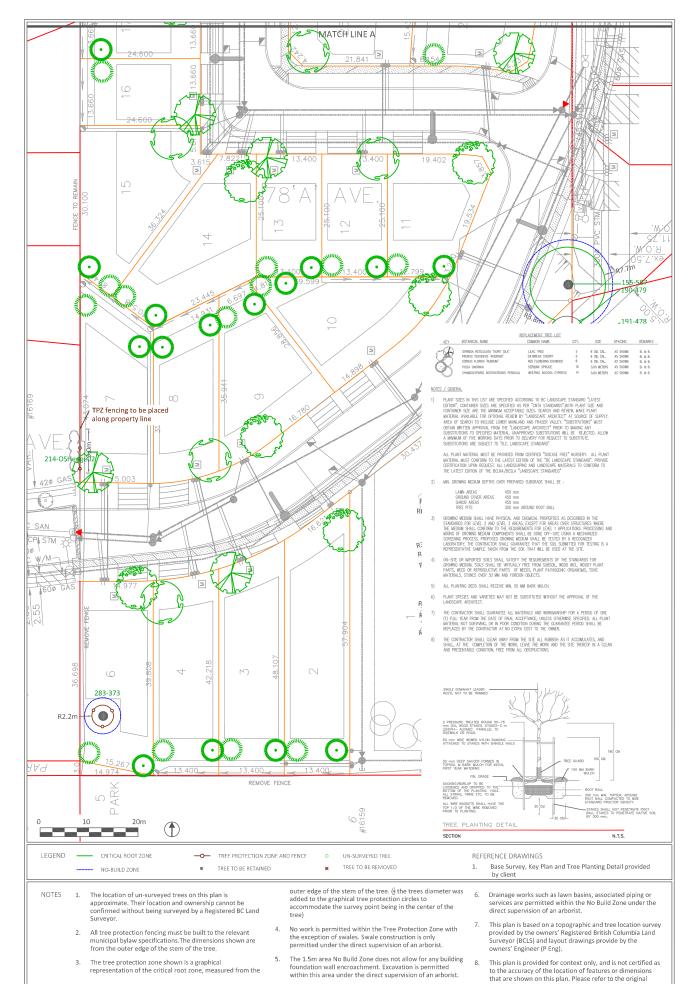
Page # 6 of 6



Client: C. Kavolinas & Associates

Drawn by: DB Page Size: TABLOID 11"x17"

5 of 6



DIAMOND

Drawing title: Tree Repla Project address: 16174, 2 Client: C Kayolinas & Ass

Drawing title: Tree Replacement Plan - Southern Section Project address: 16174, 16180-80 Ave. & 7882-162 St., Surrey, BC Client: C. Kavolinas & Associates

Drawing No: 004
Date: 2018/12/18
Drawn by: DB
Page Size: TABLOID 11"x17'

Page # 4 of 6

CITY OF SURREY

(the "City")

DEVELOPMENT VARIANCE PERMIT

00

| | | NO.: 7917-0559-00 | | | | |
|--------|-----------|---|--|--|--|--|
| Issued | l To: | | | | | |
| | | (the "Owner") | | | | |
| Addre | ess of Ov | wner: | | | | |
| 1. | statut | levelopment variance permit is issued subject to compliance by the Owner with all es, by-laws, orders, regulations or agreements, except as specifically varied by this opment variance permit. | | | | |
| 2. | witho | development variance permit applies to that real property including land with or out improvements located within the City of Surrey, with the legal description and address as follows: | | | | |
| | We | Parcel Identifier: 006-500-111 est Half Lot 4 Sectioon 24 Township 2 New Westminster District Plan 5556 | | | | |
| | | 16174 - 80 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.
 - to reduce the minimum front yard setback of the RA Zone from 18 metres (59 ft.) (a) to 4.1 metres (13 ft.) for an existing accessory building on proposed Lot 27.

| 5. | This development variance permit applies to only that portion of the buildings and structures on the Land 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 unless the subdivision, as conceptually shown on Schedule A which is attached hereto and forms part of this development variance permit, is registered in the New Westminster Land Title Office within three (3) 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 development variance permit is not a building permit. |
| | ORIZING RESOLUTION PASSED BY THE COUNCIL, THE DAY OF , 20 . D THIS DAY OF , 20 . |
| | Mayor – Doug McCallum |

City Clerk – Jennifer Ficocelli

SCHEDULE A-

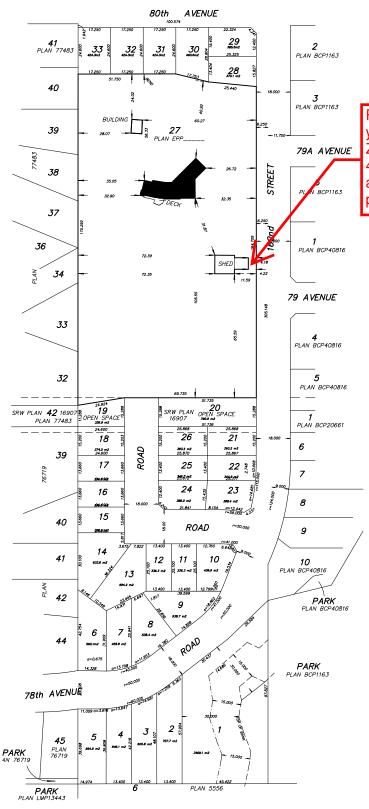
B.C. LAND SURVEYORS BUILDING LOCATION CERTIFI SHOWING IMPROVEMENTS ON LOT 26

SECTION 24 TOWNSHIP 2

NEW WESTMINSTER DISTRICT PLAN EPP_







Reduce the minimum front yard setback of the RA Zone from 18 metres to 4.1 metres for an existing accessory building on proposed Lot 27.

THIS BUILDING LOCATION CERTIFICATE HAS BEEN PREPARED IN ACCORDANCE WITH THE MANUAL OF STANDARD PRACTICE AND IS CERTIFIED CORRECT THIS 15th DAY OF OCTOBER, 2018.

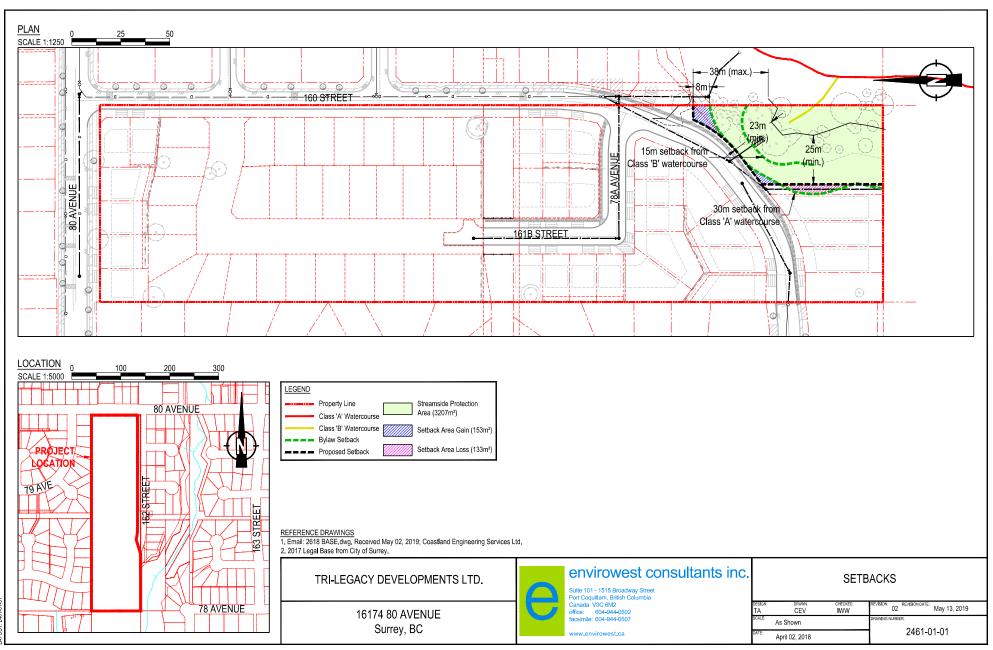
DRAFT 2019-MAY-09

GARY SUNDVICK

This document is not valid unless originally signed and sealed. OR MUNICIPAL AND OR MORTGAGE PURPOSES ONLY, NOT TO BE USED TO DEFINE PROPERTY BOUNDARIES



File: 4098 Dwg: 4098-CE2



DATE. 2019-05-13 - 3-40pm PATH VALORAN(phalEmironest Files/2019/Surrey-While Rock/2461-01/AutoCAD/Final/2461-01-01R02 Selbacks dwg PATH VALORAN(phalEmironest Files/2019/Surrey-While Rock/2461-01/AutoCAD/Final/2461-01-01R02 Selbacks dwg

