

City of Surrey PLANNING & DEVELOPMENT REPORT File: 7915-0232-00

Planning Report Date: January 11, 2016

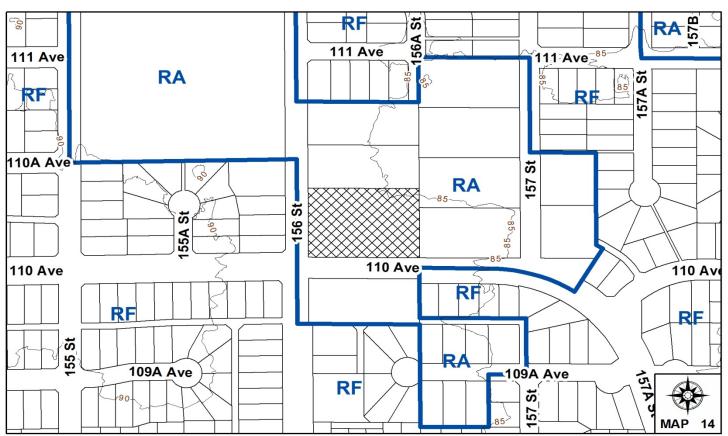
PROPOSAL:

• **Rezoning** from RA to RF to allow subdivision into nine (9) single family lots.

LOCATION: 11030 - 156 Street

OWNER: 1048162 B.C. Ltd.

ZONING: RA
OCP DESIGNATION: Urban



RECOMMENDATION SUMMARY

• By-law Introduction and set date for Public Hearing for Rezoning.

DEVIATION FROM PLANS, POLICIES OR REGULATIONS

• None.

RATIONALE OF RECOMMENDATION

- Complies with the Urban designation in the OCP.
- The proposed subdivision conforms to the City's infill policy.
- The proposed lots are similar in size with the existing RF lots in the neighbourhood.

RECOMMENDATION

The Planning & Development Department recommends that:

a By-law be introduced to rezone the subject site from "One-Acre Residential Zone (RA)" to "Single Family Residential Zone (RF)" and a date be set for Public Hearing.

- 2. 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) 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; and
 - (e) demolition of existing buildings and structures to the satisfaction of the Planning and Development Department.

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:**

3 Elementary students at Dogwood Elementary School 1 Secondary student at Fraser Heights Secondary School

(Appendix IV)

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

2017.

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 is required to address these concerns prior to final adoption of the Rezoning By-law.

SITE CHARACTERISTICS

Existing Land Use: 1.5-acre parcel with a single family dwelling, which will be demolished.

Adjacent Area:

Direction	Existing Use	OCP Designation	Existing Zone	
North:	Acreage parcel with future	Urban	RA	
1101011	subdivision potential.	Gradii	141	
East:	Acreage parcel under Application No. 7915-0134- oo proposing six (6) RF lots (currently at Third Reading).	Urban	RA	
South (Across 110 Avenue):	Single family dwellings.	Urban	RF	
West (Across 156 Street):	Single family dwellings.	Urban	RF	

DEVELOPMENT CONSIDERATIONS

Background

- The subject property is located at 11030 156 Street in Fraser Heights and is designated "Urban" in the Official Community Plan (OCP) and is zoned "One-Acre Residential Zone (RA)".
- The property is approximately 0.64 hectare (1.6 acre) in size and is currently occupied by a single family dwelling with a driveway access to 156 Street. The existing dwelling and structures on the property will be demolished as part of the subject development application.
- The applicant originally proposed to rezone the subject property from "One-Acre Residential Zone (RA)" to "Single Family Residential Zone (RF)" and to "Single Family Residential (12) Zone (RF-12)" in order to subdivide into four (4) single family RF lots and six (6) single family RF-12 lots. As a result of comments and concerns expressed by residents in the area (see Pre-Notification section of this report), the applicant revised the proposal to rezone and subdivide into nine (9) RF lots.

Current Proposal

- The applicant proposes to rezone the subject property from "One-Acre Residential Zone (RA)" to "Single Family Residential Zone (RF)" in order to subdivide into nine (9) single family lots.
- Proposed Lots 1 and 2 will front 156 Street, proposed Lots 3 to 7 will front 110 Avenue and proposed Lots 8 and 9 will front the new 156A Street, which will be dedicated and constructed for half its ultimate width along the east property line (see Road Dedication section of this report).

• Proposed Lots 1, 2, 8 and 9 are between 635 square metres (6,835 sq.ft.) and 640 square metres (6,890 sq.ft.) in size. Proposed Lots 3 to 7 are between 575 square metres (6,190 sq.ft.) and 600 square metres (6,460 sq.ft.) in size. The proposed lot widths range between 15 metres (50 ft.) and 18 metres (59 ft.).

- All proposed lots comply with the minimum 560 square metre (6,000 sq.ft.) size and 15-metre 50-ft.) width of the RF Zone.
- The proposed lot sizes and widths are comparable to the existing and proposed RF lots in the area. The owner of the property to the east (at 11019 157 Street), which is currently under Development Application No. 7915-0134-00 with rezoning at Third Reading, proposes six (6) RF lots of similar lot size and widths, while Development Application No. 7906-0494-00, at 10990 156 Street to the south of the subject site across 100 Avenue, also with rezoning at Third Reading, proposes RF lots with similar lot size and widths as well.
- The rezoning and subdivision of the subject site will follow the pattern established by the existing RF lots in the area.

Road Dedication

- The applicant is proposing to dedicate 1.94 metres (6.4 ft.) along the west and south property lines to complete 156 Street and 110 Avenue, respectively.
- The applicant originally proposed to dedicate 11.5 metres (38 ft.) along the entire east property line for the construction of a functional half road (156A Street), which will ultimately be 18 metres (59 ft.) wide. However, as a result of Development Application No. 7915-0134-00 for the abutting property to the east (11019 157 Street), which has the rezoning by-law currently sitting at Third Reading, staff asked both applicants to share the 18-metre (60 ft.) wide dedication (9.0 metres /30 feet from each property), and depending on which development application is completed first, to secure a temporary 2.5-metre (8 ft.) wide right-of-way (ROW) on the opposite property to ensure that the new portion of 156A Street is fully functional at 11.5 metres (38 ft.) in width. The equal sharing of the 18-metre (60 ft.) dedication also results in a better alignment with the existing 156A Street further to the north.
- Both applicants have agreed to share the road dedication of 9.0 metres (30 ft.) each and to provide the 2.5-metre (8-ft.) wide right-of-way (ROW) as requested. The applicant for the subject site has revised the subdivision layout, as shown in Appendix II, to include the road dedication of 9.0 metres (29 ft.) along the east property line. If the development application on the abutting property to the east (File No. 7915-0134-00 / 11019 157 Street) is completed before the subject development application (File No. 7915-0232-00 / 11030 156 Street), then the 2.5-metre (8-ft.) wide ROW will be provided on the subject site to ensure that 156A Street is fully functional at 11.5 metres (38 ft.) in width.
- Given that the rezoning on the abutting lot to the east (File No. 7915-0134-00 / 11019 157 Street) has already advanced to Third Reading, the applicant of the subject development application will likely need to provide the 2.5-metre (8-ft.) wide right-of-way (ROW) along the east property line of the subject site.

• Should either property owner subsequently oppose the ROW on their property, staff support a road dedication of 11.5 metres (38 ft.) on the property where its development application is completed first, to ensure that the road is fully functional. The proposed lots are large enough to accommodate this additional road dedication and still comply with the RF Zone if this scenario should occur.

• The road dedication of 9.0 metres (29 ft.) along the east property line of the subject site increases to 11.5 metres (38 ft.) from south to north in order to accommodate the functional half road (156A Street) in front of proposed Lots 8 and 9, given that the property to the north-east (11041 – 157 Street) is currently not under a development application.

PRE-NOTIFICATION

Pre-notification letters were sent on August 24, 2015, and staff received nine (9) e-mails from area residents, all of which expressed their objection to the six (6) RF-12 lots originally proposed. No objections were received regarding the proposed RF lots. Two (2) of the nine (9) residents followed-up with telephone calls as well, reiterating their concern for RF-12 lots in this area.

As a result of the comments and concerns that were expressed by area residents during the pre-notification process, the applicant revised their proposed subdivision layout to consist of RF lots only. No RF-12 lots are proposed.

Revised pre-notification letters were sent on October 16, 2015 informing area residents of the revised subdivision proposal, and staff received two (2) telephone calls. The callers expressed support for the proposal now that RF-12 lots were no longer proposed.

BUILDING DESIGN GUIDELINES

• 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 guidelines propose year 2000 design standards, which include balanced massing of the front façade, modern design, and high trim and finishing standards similar to Neo-Traditional homes. A summary of the design guidelines is attached (Appendix V).

LOT GRADING

- A preliminary lot grading plan, submitted by WSP Canada Inc. dated October 2015 and revised on January 5, 2016, has been reviewed by staff and will require some minor revisions, as a result of additional fill proposed on the lots. The applicant has agreed to further revise the lot grading plans to ensure an appropriate grade transition between the subject site and the abutting property to the north (11050 156 Street).
- Due to the nature grade of the subject site, in-ground basements may be achievable on the lots fronting 110 Avenue (proposed Lots 3 to 7) with minimal fill. In order to provide an appropriate grade transition (with minimal fill) between the subject site and the abutting

property to the north (11050 - 156 Street), in-ground basements might not be achievable on proposed Lots 1, 2, 8 and 9.

• Revised lot grading plans and detailed engineering drawings are required however, in order to determine if in-ground basements can be achieved on any or all of the proposed lots.

TREES

• Glenn Murray, ISA Certified Arborist of Froggers Creek Tree Consultants Ltd. 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:

able 1: Summary of Tree Preser	vation b	y 1ree s	pecies:		
Tree Species	Exis	ting	Remove	Retain	
Alder	and Cot	tonwoo	d Trees		
Alder	3	2	32	0	
Cottonwood	3	3	3	0	
	Deciduo Alder and		s wood Trees)		
Big Leaf Maple		1	4	0	
Green Ash	3	3	2	1	
Hawthorne]	L	1	0	
Native Cherry	2	3	23	0	
Pacific Dogwood	3	3	1	2	
Paper Birch]	L	1	0	
Red Oak	3	3	1	2	
Sweetgum	2		1	1	
	Conifero	us Tree	es ·		
Douglas Fir	7	7	7	0	
Shore Pine	1		1	0	
Spruce	1	=	1	0	
Western Red Cedar	10	10 9		1	
Total (excluding Alder and Cottonwood Trees)	5	59 52		7	
Total Replacement Trees Property (excluding Boulevard Street Trees			24		
Total Retained and Replaceme Trees	nt		31		
Contribution to the Green City	Fund	\$27,300			

• The Arborist Assessment states that there are a total of 59 mature trees on the site, excluding Alder and Cottonwood trees. Thirty-five (35) existing trees, approximately 37% of the total trees on the site, are Alder and Cottonwood trees. It was determined that seven (7) 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 tree health.

- There are two (2) trees, currently proposed for removal, that are in moderate health and situated close to/within the proposed building footprint on proposed Lots 3 and 4. Staff will continue will to work with the applicant to determine if these trees can be retained, prior to final adoption of the Rezoning By-law.
- 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. Currently, this will require a total of 115 replacement trees on the site. Since only twenty-four (24) replacement trees can be accommodated on the site, the deficit of ninety-one (91) replacement trees will require a cash-in-lieu payment of \$27,300, representing \$300 per tree, to the Green City Fund, in accordance with the City's Tree Protection By-law.

SUSTAINABLE DEVELOPMENT CHECKLIST

The applicant prepared and submitted a sustainable development checklist for the subject site on July 16, 2015. 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 Criteria	Sustainable Development Features Summary
1. Site Context & Location (A1-A2)	The site is an urban infill lot, and the proposed subdivision is consistent with the OCP.
2. Density & Diversity (B1-B7)	Secondary suites will be permitted
3. Ecology & Stewardship (C1-C4)	 Swales, roof downspout disconnections and absorbent soils will be incorporated into the development. Recycling pickup will be available.
4. Sustainable Transport & Mobility (D1-D2)	Transit service runs along 110 Avenue, with a transit stop within walking distance from the subject site.
5. Accessibility & Safety (E1-E3)	Houses will be oriented towards the street.
6. Green Certification (F1)	• N/A
7. Education & Awareness (G1-G4)	• A Development Proposal Sign was installed on site, and prenotification letters were mailed to area residents.

INFORMATION ATTACHED TO THIS REPORT

The following information is attached to this Report:

Appendix I. Lot Owners, Action Summary and Project Data Sheets

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

original signed by Judith Robertson

Jean Lamontagne General Manager Planning and Development

DN/dk

<u>Information for City Clerk</u>

Legal Description and Owners of all lots that form part of the application:

1. (a) Agent: Name: Clarence Arychuk

WSP Canada Inc.

Address: 65 Richmond Street, Suite 300

New Westminster, BC V₃L₅P₅

Tel: (604) 525-4651

2. Properties involved in the Application

(a) Civic Address: 11030 - 156 Street

(b) Civic Address: 11030 - 156 Street Owner: 1048162 B.C. Ltd.

<u>Director Information:</u> Jamail Singh Garcha

No Officer Information as of September 4, 2015

PID: 011-211-202 Block 16 Except: Firstly: North 140 Feet

Secondly: Parcel "A" (Reference Plan 13401), Section 15

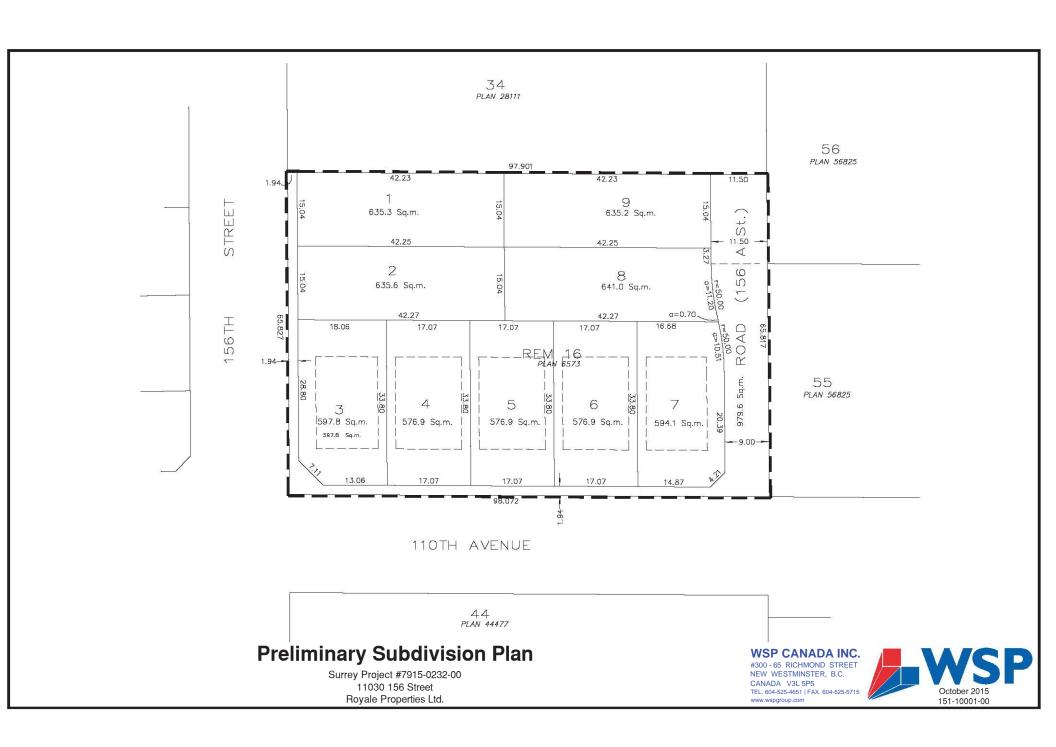
Block 5 North Range 1 West New Westminster District Plan 6573

- 3. Summary of Actions for City Clerk's Office
 - (a) Introduce a By-law to rezone the property.

SUBDIVISION DATA SHEET

Proposed Zoning: RF

Requires Project Data	Proposed
GROSS SITE AREA	. <u>F</u>
Acres	1.6
Hectares	0.64
NUMBER OF LOTS	
Existing	1
Proposed	9
SIZE OF LOTS	
Range of lot widths (metres)	15.0 to 17.5 metres
Range of lot areas (square metres)	560 to 635 square metres
DENSITY	
Lots/Hectare & Lots/Acre (Gross)	10.9 lots/ha and 4.4 lots/ac
SITE COVERAGE (in % of gross site area)	
Maximum Coverage of Principal &	38%
Accessory Building	
Estimated Road, Lane & Driveway Coverage	22%
Total Site Coverage	60%
PARKLAND	
Area (square metres)	N/A
% of Gross Site	·
	Required
PARKLAND	
5% money in lieu	YES
TREE SURVEY/ASSESSMENT	YES
11.22 0 0 11 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2	1.20
MODEL BUILDING SCHEME	YES
HERITAGE SITE Retention	NO
ED ACED MEANERMA	NO
FRASER HEALTH Approval	NO
DEV. VARIANCE PERMIT required	
Road Length/Standards	NO
Works and Services	NO
Building Retention	NO
Others	NO





INTER-OFFICE MEMO

TO:

Manager, Area Planning & Development

- North Surrey Division

Planning and Development Department

FROM:

Development Services Manager, Engineering Department

DATE:

December 23, 2015

PROJECT FILE:

7815-0232-00

RE:

Engineering Requirements Location: 11030 156 Street

Property and Right-of-Way Requirements

- Dedicate 1.942 m along 110 Avenue for the ultimate 24.0 m Collector Road Standard.
- Dedicate 1.942 m along 56 Avenue for the ultimate 24.0 m Collector Road Standard.
- Dedicate a 5.0 m x 5.0 m corner cut at the intersection of 110 Avenue and 156 Street.
- Dedicate a 3.0 m x 3.0 m corner cut at the intersection of 110 Avenue and 156A Street.
- Dedicate 11.50 m for 156A Street for the Half Road Standard.
- Provide a 0.50 m Statutory Right-of-Way along the frontages of 110 Avenue, 156 Street, and 156A Street.

Works and Services

- Construct the boulevard including a 1.80 m concrete sidewalk and street lighting along the north side of 110 Avenue.
- Construct east half of 156 Street to the Collector standard.
- Construct the west half of 156A Street to the Half Road Standard.
- Construct a 6.0 m concrete driveway letdown to each lot.
- Construct storm, sanitary, and water mains along the development frontage of 110 Avenue and 156A Street.
- Provide on-site mitigation features to meet the requirements of the Upper Serpentine Integrgated Stormwater Management Plan.
- Provide water, storm, and sanitary service connections to each lot.
- Register a restrictive covenant for right-in/right-out only access for lots 4-7.
- Register a restrictive covenant for driveway access to 156 Street only for lot 3.

A Servicing Agreement is required prior to Rezoning and Subdivision.

Rémi Dubé, P.Eng.

RCooler

Development Services Manager

CE



Monday, January 04, 2016 **Planning**

THE IMPACT ON SCHOOLS

APPLICATION #:

Dogwood Elementary

15 0232 00

SUMMARY

The proposed 9 single family lots are estimated to have the following impact on the following schools:

Projected # of students for this development:

Elementary Students:	3
Secondary Students:	1

September 2015 Enrolment/School Capacity

Enrolment (K/1-7):	36 K + 325	
Capacity (K/1-7):	40 K + 450	
Fraser Heights Secon	lary	

 Enrolment (8-12):
 1382

 Nominal Capacity (8-12):
 1250

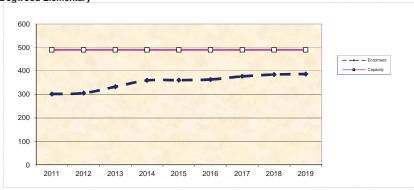
 Functional Capacity*(8-12);
 1350

School Enrolment Projections and Planning Update:

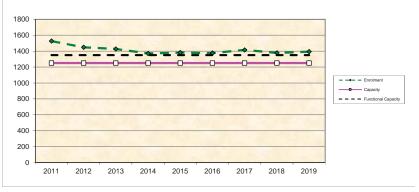
The following tables illustrate the enrolment projections (with current/approved ministry capacity) for the elementary and secondary schools serving the proposed development.

Dogwood Elementary is below capacity and has room for enrolment growth. The addition to Fraser Heights Secondary, completed in April 2014, increased the school capacity from 1000 to 1200 + Neighbourhood Learning Centre (which provides additional functional instructional space), to help reduce overcrowding at the school. The proposed residential development will not have a significant impact on projections.

Dogwood Elementary



Fraser Heights Secondary



*Functional Capacity at secondary schools is based on space utilization estimate of 27 students per instructional space. The number of instructional spaces is estimated by dividing nominal facility capacity (Ministry capacity) by 25.

BUILDING GUIDELINES SUMMARY

Surrey Project no: 7915-0232-00

Project Location: 11030 - 156 Street, 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:

This area was built out over a time period spanning from the 1960's to the 1990's, during a period (late 1980's and early 1990's) when large (3500 sq.ft. "Modern California Stucco" Two-Storey homes with two storey high entrances, low slope concrete tile roofs, and all-stucco exteriors were popular. This type of home, mixed with old urban homes, best describes the character of the housing stock in this area.

The age distribution from oldest to newest is: 1960's (20%), 1970's (7%), 1980's (13%), and 1990's (60%). A majority of homes in this area have a floor area in the 3001 - 3550 sq.ft. size range. Home size distribution is: 1501 - 2000 sq.ft. (20%), 2001 - 2500 sq.ft. (7%), 2501 - 3000 sq.ft. (20%), 3001 - 3550 sq.ft. (53%). Styles found in this area include: "Old Urban" (27%), "West Coast Modern" (7%), "Modern California Stucco" (53%), and "Neo-Traditional" (13%). Home types include: Bungalow (7%), Bungalow with above-ground basement (7%), 1½ Storey (7%), Basement Entry (13%), and Two-Storey (67%).

Massing scale (front wall exposure) characteristics include: Low mass structure (7%), Mid-scale massing (7%), Mid to high scale massing (27%), Mid-to-high scale massing with proportionally consistent, well balanced massing design (13%), High scale massing (33%), and high scale, box-like massing (13%). The scale (height) range for front entrance structures include: One storey front entrance (40%), 1 ½ storey front entrance (27%), Two storey front entrance (non context) (33%).

The range of roof slopes found in this area is: 3:12 (7%), 5:12 (53%), 6:12 (20%), 7:12 (7%), 8:12 (7%), and 9:12 (7%). Main roof forms (largest upper floor truss spans) include: Main common hip roof (73%), and Main common gable roof (27%). Feature roof projection types include: None (10%), Common Hip (55%), and Common Gable (35%). Roof surfaces include: Rectangular profile type asphalt shingles (27%), Shake profile asphalt shingles (13%), Concrete tile (rounded Spanish profile) (20%), Concrete tile (Double Roman profile) (7%), and Cedar shingles (33%).

Main wall cladding materials include: Horizontal cedar siding (6%), Vertical channel cedar siding (6%), and Stucco cladding (88%). Feature wall trim materials used on the front facade include: No feature veneer (67%), Brick feature veneer (20%), and Horizontal cedar accent (13%). Wall cladding and trim colours include: Neutral (32%), Natural (58%), and Warm (11%).

Covered parking configurations include: Single carport (7%), Single vehicle garage (7%), Double garage (27%), Triple garage (7%), Rear garage (53%).

A variety of landscaping standards are evident, ranging from "Old urban landscape standard featuring sod and a few shrubs" to "above average modern urban landscape standard featuring numerous shrub plantings". Driveway surfaces include: Asphalt (27%), Exposed aggregate (13%), Interlocking masonry pavers (7%), and Rear driveway (53%).

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

- 1) <u>Context Homes:</u> 20 percent of existing neighbouring homes provide suitable architectural context for use at the subject site (and therefore 80 percent of homes are considered 'non-context'). Context homes include: 15700 110 Avenue, 15577 110 Avenue, and 11019 156 Street. However, massing design, construction materials, and trim and detailing standards for new homes constructed in RF zone subdivisions now exceed standards evident on the context homes. The recommendation therefore is to adopt standards commonly found in post year 2010 RF zoned subdivisions, rather than to specifically emulate the aforesaid context homes.
- Style Character: There are a mix of old urban and modern urban styles in this neighbourhood, with the dominant style being "Modern California Stucco". Preferred styles for this site include "Neo-Traditional" and compatible styles (rather than more "Modern California Stucco" homes.) 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 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) Front Entrance Design: Front entrance porticos range from one to two storeys in height. The recommendation however 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.
- Exterior Wall Cladding: A wide range of cladding materials have been used in this area, including Vinyl, cedar, stucco, fibre cement board, brick, and stone, with stucco being dominant. Reasonable flexibility should therefore be permitted, including the use of vinyl siding (vinyl should not be used on the front or flanking street facades), provided the overall quality of wall cladding materials meets or exceeds common standards for post 2010 RF zone developments.
- Roof surface: A wide range of roof surfacing materials have been used in this area including cedar shingles, concrete roof tiles, and asphalt shingles. The roof surface is not a uniquely recognizable characteristic of this area and so 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.

8) Roof Slope: Roof slopes of 7:12 or higher have been used on context homes. This is a suitable minimum roof slope given the objectives of ensuring continuity with context homes and to ensure that homes appear style-authentic within the proposed style range.

Streetscape:

Homes in this area include low mass Bungalows, Two-Storey homes with acceptable massing designs, two 1 ½ Storey type homes with desirable massing designs, and box-like Basement Entry homes. The other two thirds of homes were constructed in a strong growth phase in the late 1980's and early 1990's. These homes are 3500 sq.ft. "Modern California Stucco" Two-Storey type. These homes generally have a larger exposed wall mass at the front than post year 2000 RF zone homes. Entrance portico height ranges from 1½ to two storeys (exaggerated front entrance heights are characteristic). Homes are clad in stucco only, with stucco relief features rather than feature wood or masonry areas. Stucco colours are in natural and neutral hues only. Roof slopes are 5:12 or 6:12, and there are a variety of roof surface materials including concrete tiles, cedar shakes, and asphalt shingles. There is a wide range of landscape standards.

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: "Neo-Traditional" or compatible styles as determined by the 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 2000'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 15700 - 110 Avenue, 15577 - 110 Avenue, and 11019 - 156 Street, 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 2010) RF zone subdivisions now exceed standards evident on the context homes. The recommendation therefore is to adopt standards

commonly found in post year 2010 RF zoned subdivisions, rather than to specifically emulate the aforesaid two context homes.

Exterior Materials/Colours:

Stucco, Cedar, Hardiplank, Brick, and Stone. Vinyl siding not permitted on exterior walls on the front façade or on the flanking street side of a corner lot home.

"Natural" colours such as browns, greens, clays, and other earth-tones, and "Neutral" colours such as grey, white, and cream are permitted. Primary colours are not recommended for this development, except on trim elements, subject to consultant approval. "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 7:12.

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.

In-ground basements: Permitted, subject to determination that service invert locations

are sufficiently below grade. 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, or stamped concrete.

Compliance Deposit: \$10,000.00

Summary prepared and submitted by: Tynan Consulting Ltd. Date: Nov 23, 2015

Reviewed and Approved by: Mutalland Date: Nov 23, 2015

Tree Preservation Summary

Surrey Project No:

Address: 11030 156TH Street, Surrey BC

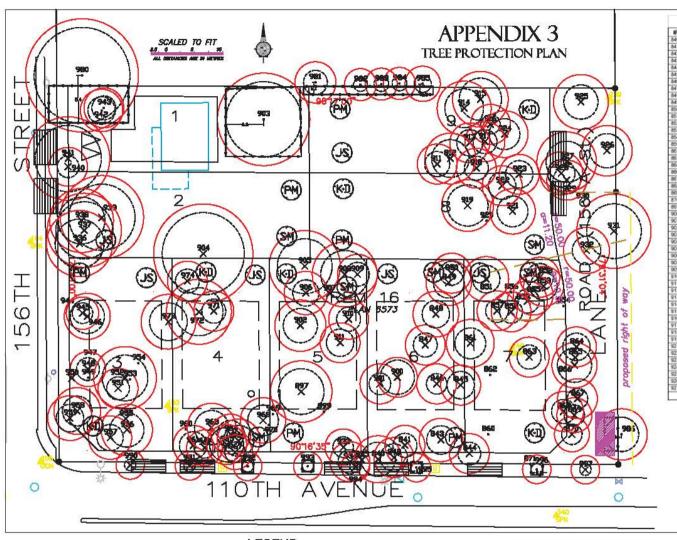
Registered Arborist: Glenn Murray

On-Site Trees	Number of Trees
Protected Trees Identified (on-site and shared trees, including trees within boulevards and proposed streets	94
and lanes, but excluding trees in proposed open space or riparian areas)	
Protected Trees to be Removed	87
Protected Trees to be Retained (excluding trees within proposed open space or riparian areas)	7
- Alder & Cottonwood Trees Requiring 1 to 1 Replacement Ratio	139
Replacement Trees Proposed	24
Replacement Trees in Deficit	115
Protected Trees to be Retained in Proposed [Open Space / Riparian Areas]	

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

Summary, report and plan prepared and submitted by:

Shapping		
	Nov 3/2015	
(Signature of Arborist)	Date	



	Type	Action	DBH	MPZ	NBZ	- #	Type	Action	DBH	MPZ	NB
840	Cottonwood	Remove	50cm	3.0m	4.5m	928	Notive Cherry	Remove	40cm	2.4m	3.9r
	Big Leaf Maple	Remove	35cm	2.1m	3.6m		Native Cherry	Remove	40cm	2.4m	3.9
	Cattarwood	Remove	40cm	2.4m	3.9m		Native Cherry	Remove	80cm	4.8m	6.3
	Native Cherry	Remove	35/35cm	2.5m	4.000		Native Cherry	Remove	35/35cm	2.5m.	4.0
844	Big Leaf Maple	Remove	20/20/20	2.0m	3.5m	933	Native Cherry	Remove	30cm	1.8m	3.5
	Native Cherry	Remove	40cm	2.4m	3.90		Cottonwood	Remove	35cm	2.1m	3.6
846	Red Alder	Remove	30cm	1.8m	3.3m	936	Western Redoedar	Remove	71cm	4.3m	5.8
	Red Alder	Remove	35cm	2.1m	3.6m		Western Redcedar	Remove	60/60cm	5.0m	6.5
	Red Alder	Remove	40cm	2.4m	3.9m		Western Redoedar	Remove	68cm	4.1m	5.6
	Red Alder	Remove	45cm	2.7m	4.20		Western Redoedar		97cm	5.8m	7.3
	Red Alder	Remove	35cm	2.1m	3.6m		Douglas Fir	Remove	32cm	1.9m	3.4
	Red Alder	Remove	40cm	2.4m	3.9m		Western Redoedar	Remove	96cm	5.8m	7.3
	Red Alder	Remove	40cm	2.4m	3.901		Pacific Dogwood	Retain	40cm	2.4m	3.9
	Red Alder	Remove	40cm	2.4m	3.9m		Pacific Dogwood	Retain	35cm	2.1m	3.6
	Red Alder	Remove	50cm	3.0m	4.5m		Native Cherry	Remove	18/18cm	1.8m	3.3
	Red Alder	Remove	35cm	2.1m	3.6m		Native Cherry	Remove	40/30cm	3.0m	4.5
	Red Alder	Remove	45cm	2.700	4.2m		Red Alder	Remove	34cm	2.0m	3.5
	Red Alder	Remove	35cm	2.1m	3.6m		Paper Birch	Remove	25/18cm	1.8m	3.3
	Native Cherry	Remove	40cm	2.4m	3.9m		Western Redoedar		50/30cm	4.0m	5.5
	Big Leaf Maple	Remove	50cm	3.0m	4.5m		Western Redoedar	Remove	50cm	3.0m	4.5
	Native Cherry	Remove	30cm	1.8m	3.3m		Douglas Fir	Remove	39cm	2.3m	3.8
	Hawthorne	Remove	35cm	2.1m	3.6cs		Douglas Fir	Remove	44cm	2.6m	4.1
	Native Cherry	Remove	30cm	1.8m	3.3m		Pacific Dogwood	Remove	25/20/15	2.4m	3.9
	Native Cherry	Remove	30cm	1.8m	3.3m		Red Alder	Remove	40cm	2.4m	3.9
	Rad Alder	Remove	40/40/40	4.0m	5.5m		Native Cherry	Remove	20/10cm	1.8m	3.3
	Red Alder	Remove	50cm	3.0m	4.5m		Native Cherry	Remove	50cm	3.0m	4.5
	Douglas Fir	Remove	32cm	1.9m	3.4m		Native Cherry	Remove	40cm	2.4m	3.9
	Douglas Fir	Remove	50cm	3.0m	4.5m		Native Cherry	Remove	30cm	1.8m	3.3
	Western Redoedar		110cm	6.6m	8.1m		Native Cherry	Remove	45cm	2.7m	4.2
	Western Redcedar		120cm	7.2m	8.7m		Native Cherry	Remove	30cm	1.8m	3.3
	8-g Leaf Maple	Remove	80cm	4.8m	6.3m		Red Alder	Remove	45cm	1.6m	4.2
		Remove	38cm	2.3m	3.8m		Shore Pine	Remove	35cm	2.7m	3.6
	Douglas Fir Red Alder	Remove	70cm	4.2m	5.7m			Remove	70cm	4.2m	5.7
	Native Cherry	Remove	35cm	2.1m	3.6m		Douglas Fir Western Redoedar		55cm	3.3m	4.8
											3.6
	Red Alder	Remove	40cm	2.4m	3.9m		Spruce	Remove	35cm	2.1m	
	Native Cherry Red Alder	Remove	36cm	2.2m	3.7m		Western Redoedar		140cm	8.4m	9.9
	Red Alder	Remove	45/30cm 39cm	3.3m 2.3m	4.8m 3.8m		Red Alder	Retain	35cm 20cm	2.1m 1.2m	3.6
							Blue Spruce	Retain.			2.7
	Red Alder	Remove	56cm	3.4m	4.9m		Blue Spruce	Retain	22cm	1.3m	
	Red Alder	Remove	62cm	3.7m	5.2m		Blue Spruce	Retain	22cm	1.3m	2.5
	Native Cherry	Remove	30cm	1.8m	3.3m		Blue Spruce	Retain	25cm	1.5m	3.0
	Red Alder	Remove	35cm	2.1m	3.6m		Douglas Fir	Retain	50cm	3.0m	4.5
	Red Alder	Remove	35cm	2.1m	3.6m		Green Ash	Remove	10cm	1.0m	2.5
	Red Alder	Remove	60cm	3.6m	5.1m		Green Ash	Remove	10cm	1.0m	2.5
	Red Alder	Remove	45cm.	2.7m	4.2m		Green Ash	Retain	8cm	1.0m	2.5
	Rad Alder	Remove	40cm	2.4m	3.9m		Red Oak	Retain	10cm	1.0m	2.5
	Red Alder	Remove	40cm	2.4m	3.9m		Red Oak	Remove	10cm	1. On:	2.5
	Red Alder	Remove	45cm	2.7m	4.20		Red Oak	Retain:	9cm	1.0m	2.5
	Red Alder	Remove	50cm	3.0m	4.5m		Sweetgum	Retain	8cm	1.0m	2.5
	Native Cherry	Remove	50cm	3.0m	4.5m	997	Sweetgum	Remove	8cm	1.0m	2.5
927	Rad Alder	Remove	. 60cm	3.6m	5.1m						

PLANTS IN THE PLANT LIST ARE SPECIFIED ACCORDING TO THE LANDSCAPE CANADA GUIDE SPECIFICATIONS FOR NURSERY STOCK AND THE BCNTA STANDARD FOR CONSTAINER GROWN PLANTS.

ALL LANDSCAPING AND LANDSCAPE MATERIALS CONFORM TO THE LATEST EDITION OF THE BCNTA/BCSLA "LANDSCAPE STANDARDS".

	REPLACEMENT TREES				
	QTY	Туре	Size		
((6	Kousa Dogwood	6cm		
4	6	Paperbark Maple	6cm		
3)	6	Japanese Snowbell	6cm		
M)	6	Saucer Magnolia	6cm		

LEGEND TREE PROPOSED

FOR RETENTION PROTECTION ZONE (MPZ) FENCING DIMENSIONS IN METRES PROTECTION FENCING NO FOUNDATION

ZONE (NFZ)



AREAS REQUIRING ARBORIST SUPERVISION

Undersized Tree Surveyed

860

Page 12

#	Type	DBH	#	Type	DBH
944	Dogwood	27cm	950	Paper Birch	29cn
858	Maple	27cm	953	Paper Birch	27cm
871	Cottonwood	27cm	855	Red Alder	25cm
935	Cottonwood	27cm	862	Red Alder	29cm
856	Cherry	29cm	920	Red Alder	29cm
857	Cherry	27cm	947	Red Alder	22cm
860	Cherry	25cm	960	Red Alder	25cm
865	Cherry	27cm	969	Red Alder	27cm
899	Cherry	27cm	970	Red Alder	26cm
907	Cherry	28cm	949	Redcedar	29cm
930	Cherry	29cm	954	Redcedar	24cn
955	Cherry	25cm	-	-	

Undersized Trees

1. SITE LAYOUT INFORMATION AND TREE SURVEY DATA PER SUPPLIED DRAWING

2. REPER TO ATTACHED TREE PROTECTION REPORT FOR INFORMATION CONCERNING TREE SPECIES, STEM DIAMETER, HEIGHT, CANCEY SITEEAD AND CONDITION.

3. ALL MEASUREMENTS ARE METRIC

Fraggers Creek Tree Consultants Ltd

7703 McGragor Annua Sarraby BC VSJ 494 Telephane: 804-721-8002 Fac: 804-437-0870

11030 158th Street, Surray

TREE FRONTECTION FLAN
THE DRAWING PLOTS ALL TREES, PROPOSED FOR
RETENTION, REMOVAL, THER CANOPES,
PROTECTION CAMES, PROTECTION FERSION AND
REFLECTION CAMES, PROTECTION FORMA AND
REFLECTION TITLESS IN RELATION TO PROPOSED