# City of Surrey PLANNING & DEVELOPMENT REPORT Application No.: 7918-0111-00

Planning Report Date: December 4, 2023

# **PROPOSAL:**

112 AVE

104 AVE

96 AVE 88 AVE

80 AVE

**72 AVE** 

**64 AVE** 

56 AVE 48 AVE

40 AVE 32 AVE

24 AVE 16 AVE

**8 AVE** 

0 AVE

184 ST 192 ST

168 ST 176 ST

GUILDFORD

FLEETWOOD

SOUTH SURREY

ST

160

144 ST 152 ST CLOVERDALE

WHALLEY

NEWTON

×

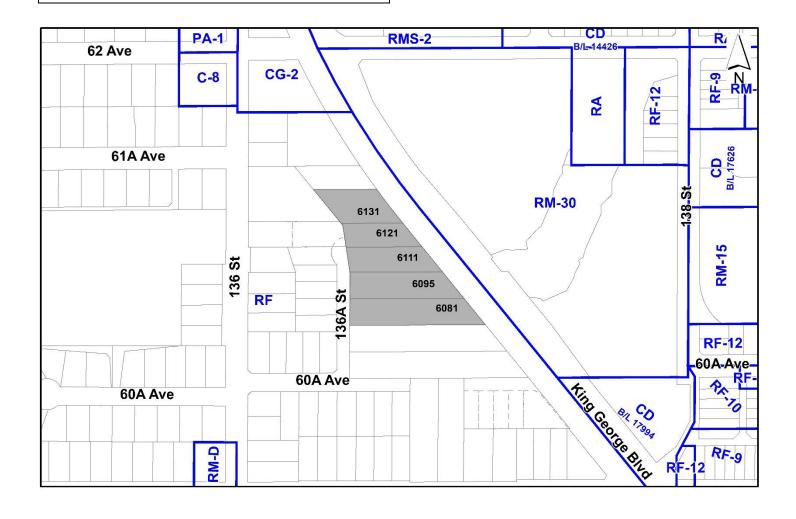
120 ST

128 ST 136 ST

- **Rezoning** from RF to CD (based on RM-70)
- Development Permit

to permit the development of 3 apartment buildings with a total of 198 units.

| LOCATION:               | 6131 King George Boulevard |
|-------------------------|----------------------------|
|                         | 6121 King George Boulevard |
|                         | 6111 King George Boulevard |
|                         | 6095 King George Boulevard |
|                         | 6081 King George Boulevard |
| ZONING:                 | RF                         |
| <b>OCP DESIGNATION:</b> | Multiple Residential       |
| NCP DESIGNATION:        | Low-Rise Residential       |
|                         |                            |



# **RECOMMENDATION SUMMARY**

- By-law Introduction and set date for Public Hearing for Rezoning.
- Approval to draft Development Permit for Form and Character and Sensitive Ecosystems.

# DEVIATION FROM PLANS, POLICIES OR REGULATIONS

• None.

# **RATIONALE OF RECOMMENDATION**

- The proposal complies with the Multiple Residential designation in the Official Community Plan (OCP).
- The proposal complies with the Low-Rise Residential designation in the Newton-King George Boulevard Plan.
- The proposal complies with the General Urban designation in the Metro Vancouver Regional Growth Strategy (RGS).
- The proposed density and building form are appropriate for this part of Newton.
- The proposal supports planned future Bus Rapid Transit (BRT) along King George Boulevard.
- The proposal complies with the Development Permit requirements in the OCP for Sensitive Ecosystems (Streamside Areas).
- The proposal complies with the Development Permit requirements in the OCP for Form and Character.
- The proposed building achieves an attractive architectural built form, which utilizes high quality, natural materials and contemporary lines. The street interface has been designed to a high quality to achieve a positive urban experience between the proposed building and the public realm.

#### RECOMMENDATION

The Planning & Development Department recommends that:

- 1. A By-law be introduced to rezone the subject site from "Single Family Residential Zone (RF)" to "Comprehensive Development Zone (CD)" and a date be set for Public Hearing.
- 2. Council authorize staff to draft Development Permit No. 7918-0111-00 generally in accordance with the attached drawings (Appendix I) and the finalized Ecosystem Development Plan.
- 3. 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) Approval from the Ministry of Transportation & Infrastructure;
  - (d) resolution of all urban design issues to the satisfaction of the Planning and Development Department;
  - (e) submission of a finalized landscaping plan and landscaping cost estimate to the specifications and satisfaction of the Planning and Development Department;
  - (f) submission of a finalized tree survey and a statement regarding tree preservation to the satisfaction of the City Landscape Architect;
  - (g) the applicant satisfy the deficiency in tree replacement on the site, to the satisfaction of the Planning and Development Department;
  - (h) submission of an acoustical report for the units adjacent to King George Boulevard and registration of a Section 219 Restrictive Covenant to ensure implementation of noise mitigation measures;
  - Registration of a Section 219 Restrictive Covenant to adequately address the City's needs with respect to public art, to the satisfaction of the General Manager Parks, Recreation and Culture and with respect to the City's Affordable Housing Strategy and Tier 1 Capital Project CACs, to the satisfaction of the General Manager, Planning & Development Services;
  - (j) Final Approval of the Fire Access Plan to the satisfaction of Surrey Fire Services;
  - (k) the applicant provide an independent peer review of the Sensitive Ecosystem Development Plan; and

(l) the applicant provide cash-in-lieu as compensation for the future relocation of the Class B channelized stream along the southern portion of King George Boulevard fronting the site, to the satisfaction of the Planning and Development Department and the Engineering Department.

# SITE CONTEXT & BACKGROUND

| Direction                        | Existing Use   | LUP Designation  | Existing Zone |
|----------------------------------|--|--|---------------|
| Subject Site                     | Vacant land  | Low-Rise<br>Residential  | RF            |
| North:                           | Single family residential  | Low-Rise Mixed-<br>Use Cluster                                     | RF            |
| East (Across King George Blvd.): | Townhouses   | Townhouses (25<br>upa max.) and<br>Creeks and<br>Riparian Setbacks | RM-30         |
| South:                           | Single family<br>residential, under<br>Development<br>Application No.<br>7918-0416-00, at<br>Initial Review, for<br>the development<br>of an apartment<br>building | Low-Rise<br>Residential  | RF            |
| West (Across 136A Street):       | Single family<br>residential   | Low Density<br>Residential   | RF            |

#### **Context & Background**

- The subject properties are located on the west side of King George Boulevard, north of 60A Avenue.
- The site is comprised of five (5) existing single family lots, with a combined gross site area of approximately 0.96 hectare.
- The subject properties are designated "Multiple Residential" in the Official Community Plan (OCP), "Low-Rise Residential" in the Newton-King George Boulevard Plan and are currently Zoned "Single Family Residential Zone (RF)".
- Development Application No. 7918-0111-00 was submitted in 2018, and has gone through a number of iterations since application submission. In March 2023, the Newton-King George Boulevard Plan was approved by Council, designating the site for low-rise multiple residential development. At the October 20, 2023 Regular Council meeting staff were directed to work with Translink on advancing design for Bus Rapid Transit (BRT) on King George Boulevard. In November 2023, the Metro Vancouver Mayors' Council on Regional Transportation selected King George Boulevard as one of the first three (3) corridors for Metro Vancouver's new Bus Rapid Transit (BRT) routes. While funding still needs to be secured, there is strong potential

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for Bus Rapid Transit (BRT) along this corridor, and therefore it is important to encourage density along the corridor.

# **DEVELOPMENT PROPOSAL**

# **Planning Considerations**

- In order to permit the development of three (3) low-rise residential buildings with a total of 198 residential units, the applicant proposes the following:
  - Rezoning from Single Family Residential Zone (RF) to Comprehensive Development Zone (CD) (based on the Multiple Residential 70 Zone (RM-70));
  - o Development Permit for Form and Character and Sensitive Ecosystems; and
  - Consolidation of five (5) lots into one (1) lot.

|                           | Proposed              |  |  |  |
|---------------------------|-----------------------|--|--|--|
| Lot Area                  |                       |  |  |  |
| Gross Site Area:          | 0.96 ha               |  |  |  |
| Road Dedication:          | 0.2 ha                |  |  |  |
| Net Site Area:            | 0.76 ha               |  |  |  |
| Number of Lots:           | 5                     |  |  |  |
| Building Height:          | 23.5 m                |  |  |  |
| Floor Area Ratio (FAR):   | 2.1                   |  |  |  |
| Floor Area                |                       |  |  |  |
| Residential:              | 15,065 m <sup>2</sup> |  |  |  |
| <b>Residential Units:</b> |                       |  |  |  |
| Studio:                   | 6 dwelling units      |  |  |  |
| 1-Bedroom:                | 116 dwelling units    |  |  |  |
| 2-Bedroom:                | 76 dwelling units     |  |  |  |
| 3-Bedroom:                | o dwelling units      |  |  |  |
| Total:                    | 198 dwelling units    |  |  |  |

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|--|--|
| Referrals  |  |
| Engineering:   | The Engineering Department has no objection to the project<br>subject to the completion of Engineering servicing requirements as<br>outlined in Appendix II.   |
| School District:                                       | The School District has advised that there will be<br>approximately 26 school-age children generated by this<br>development, of which the School District has provided the<br>following expected student enrollment.   |
|  | 16 Elementary students at North Ridge Elementary School<br>6 Secondary students at Panorama Ridge Secondary School   |
|  | (Appendix III)   |
|  | Note that the number of school-age children is greater than<br>the expected enrollment due to students attending private<br>schools, home school or different school districts.  |
|  | The applicant has advised that the dwelling units in this project are expected to be constructed and ready for occupancy by June 2028.   |
| Parks, Recreation &                                    | No concerns.   |
| Culture:   | Senator Reid Park is the closest active park and contains amenities including a soccer field and a natural area. The park is 300 metres walking distance from the development site.  |
| Ministry of Transportation<br>& Infrastructure (MOTI): | Preliminary approval is granted for the rezoning for one year pursuant to section 52(3)(a) of the <i>Transportation Act</i> .  |
| Surrey Fire Department:                                | The Fire Access Plan needs to be updated so that the stairs comply<br>with the requirements of Surrey Fire Services, and the parking plan<br>is required to be revised to suit the fire access requirements. The<br>applicant understands that this revision is required and has agreed<br>to update the plans accordingly, prior to Final Adoption. |
| Advisory Design Panel<br>(ADP):                        | ADP date: June 8, 2023   |
|  | The applicant has agreed to resolve the remaining outstanding<br>items generally noted below, from the ADP review, to the<br>satisfaction of the Planning and Development Department before<br>Final Approval of the Development Permit, should the application<br>be supported by Council.  |

# Transportation Considerations

- The applicant is required to dedicate 8.5 metres in width on 136A Street for the completion of this street, including a 14.0 metre radius cul-de-sac bulb. 11.5 metres of dedication is required on 61A Avenue, to meet the half road requirements for the ultimate 14.5 metre road allowance.
- Dedication of varying width for a walkway is required between 136A Street and 61A Avenue, for pedestrian connectivity.
- Vehicular access for all three (3) buildings is provided from 61A Avenue at the north end of the site. Fire access for Buildings 2 and 3 is provided from 136A Street. These buildings will therefore be addressed to 136A Street, but access to the parkade for all buildings is proposed from 61A Avenue.
- All of the parking for the proposed development is underground. Three (3) levels of underground parking are proposed, and the parking requirement in the Zoning Bylaw is being met.
- Additional dedication is also required for the southern section along King George Boulevard, to allow for the future relocation of an existing Class B channelized stream to allow for future road widening.
- The subject site is located along Route No. 321 White Rock Centre/Newton Exchange/Surrey Central Station, with an existing transit stop a short distance from the site (approximately 40 metres). The site is also located on a planned future Bus Rapid Transit (BRT) route along King George Boulevard.

#### **Sustainability Considerations**

• The applicant has met all of the typical sustainable development criteria, as indicated in the Sustainable Development Checklist.

# POLICY & BY-LAW CONSIDERATIONS

#### **Regional Growth Strategy**

- The subject property is designated "General Urban" in the Regional Growth Strategy (RGS).
- The proposed development complies with the General Urban RGS designation.

# Official Community Plan

#### Land Use Designation

- The subject site is designated "Multiple Residential" in the Official Community Plan (OCP).
- The proposed development generally complies with the Multiple Residential OCP designation.

## Themes/Policies

• The development proposal supports transit-oriented development, focused growth and increased density along frequent transit corridors, which supports transit service expansion and rapid transit infrastructure investment.

# **Secondary Plans**

#### Land Use Designation

- The subject site is designated "Low-Rise Residential" in the Newton-King George Boulevard Plan.
- The Netwon-King George Boulevard Plan was approved by Council on March 6, 2023, subsequent to the application submission for the subject development application. Therefore, the proposal is generally consistent with the Plan.
- The proposed development generally complies with the Newton-King George Boulevard Plan. Regarding density, the Plan allows for 1.5 FAR but based on the gross site density calculation. Based on the gross site area, the proposed FAR is 1.56 FAR. The applicant is required to pay Tier 2 CACs based on the density above 1.5 FAR gross.

## Themes/Objectives

- The development provides a greater diversity of housing options with units of different sizes, types and compositions.
- The proposal complies with the 6-storey maximum building height allowed under the "Low-Rise Residential" designation in the Newton-King George Boulevard Plan.
- The Plan parameters include a housing policy specifying a minimum of 30% of the apartment units to be 2-bedroom or greater, and at least 10% as 3-bedroom or greater. The proposal includes 38% 2-bedroom units but does not include any 3-bedroom units. Staff requested the 3 bedroom minimum threshold be provided, however, the applicant has chosen not to provide these.
- The Newton-King George Boulevard Plan includes a policy indicating that all units meet the Adaptable Housing Standards as defined in the BC Building Code. The applicant is not proposing to meet this requirement.

# CD By-law

- The applicant proposes to rezone the subject site from "Single Family Residential Zone (RF)" to "Comprehensive Development Zone (CD)" (based upon the "Multiple Residential 70 Zone [RM-70]") in order to accommodate the proposed three (3) multiple residential low-rise apartment buildings. The proposed CD Bylaw for the subject site identifies the uses, densities and setbacks proposed.
- A comparison of the density, lot coverage, setbacks, building height and permitted uses in the RM-70 Zone and the proposed CD Bylaw is illustrated in the following table:

| Zoning                      | RM-70 Zone (Part 24)       | Proposed CD Zone           |  |
|-----------------------------|----------------------------|----------------------------|--|
| Unit Density:               | N/A                        | N/A                        |  |
| Floor Area Ratio:           | 1.5                        | 2.1 (Net)                  |  |
| Lot Coverage:               | 33%                        | 50%                        |  |
| Yards and Setbacks          |                            |                            |  |
| North Yard                  | 7.5 m.                     | 6.0 m.                     |  |
| East Yard                   | 7.5 m.                     | 7.5 m.                     |  |
| South Yard                  | 7.5 m.                     | 9.5 m.                     |  |
| West Yard                   | 7.5 m.                     | 6.o m.                     |  |
| Principal Building Height:  | 50 m.                      | 23.5 m.                    |  |
| Permitted Uses:             | Multiple unit residential  | Multiple unit residential  |  |
|                             | buildings, ground-oriented | buildings, ground-oriented |  |
|                             | multiple unit residential  | multiple unit residential  |  |
|                             | buildings and child        | buildings and child        |  |
|                             | care centres               | care centres               |  |
| Amenity Space               |                            |                            |  |
| Indoor Amenity:             | 594 sq. m.                 | 859 sq. m.                 |  |
| Outdoor Amenity:            | 594 sq. m.                 | 1,254 sq. m.               |  |
| Parking (Part 5)            | Required                   | Proposed                   |  |
| Number of Stalls            |                            |                            |  |
| Residential:                | 273 parking spaces         | 273 parking spaces         |  |
| Residential Visitor:        | 40 parking spaces          | 40 parking spaces          |  |
| Total:                      | 313 parking spaces         | 313 parking spaces         |  |
| Bicycle Spaces              |                            |                            |  |
| Residential Secure Parking: | 238 bicycle spaces         | 342 bicycle spaces         |  |
| Residential Visitor:        | 18 bicycle spaces          | 18 bicycle spaces          |  |

- The proposed CD Bylaw is based upon the RM-70 Zone with modifications to the maximum permitted density, lot coverage, minimum building setbacks, and maximum building height.
- If calculated based on gross site area, the proposed development on the subject site would have a floor area ratio (FAR) of 1.56. The CD Bylaw includes a density calculation based on net site area, which is 2.1 FAR. The proposed density is generally consistent with the Newton-King George Boulevard Plan and is also supportable given the site's location along a planned future Bus Rapid Transit (BRT) route.
- The maximum lot coverage has been increased from 33% under the RM-70 Zone to a maximum of 50% in the CD Bylaw to accommodate the proposed built form. The proposed lot coverage is typical for a low-rise multiple residential development.
- The reduced setbacks proposed on the subject site will allow for a better interface to the street and enlarge the outdoor amenity space for future residents while providing a more pedestrian-friendly urban streetscape.

# **Capital Projects Community Amenity Contributions (CACs)**

• On December 16, 2019, Council approved the City's Community Amenity Contribution and Density Bonus Program Update (Corporate Report No. R224; 2019). The intent of that report

was to introduce a new City-wide Community Amenity Contribution (CAC) and updated Density Bonus Policy to offset the impacts of growth from development and to provide additional funding for community capital projects identified in the City's Annual Five-Year Capital Financial Plan. A fee update has been approved in April 2023, under Corporate Report No.Ro37;2023.

- The proposed development will be subject to the Tier 1 Capital Plan Project CACs and will be required to provide a financial contribution of \$2,136 per dwelling unit. The contributions are payable at the rate applicable at the time of Building Permit issuance.
- The proposed development will be subject to the Tier 2 Capital Plan Project CACs for proposed density greater than the Secondary Plan designation.

# Affordable Housing Strategy

- On April 9, 2018, Council approved the City's Affordable Housing Strategy (Corporate Report No. Ro66; 2018) requiring that all new rezoning applications for residential development contribute \$1,000 (now \$1,068) per new unit to support the development of new affordable housing. The funds collected through the Affordable Housing Contribution will be used to purchase land for new affordable rental housing projects.
- The applicant will be required to register a Section 219 Restrictive Covenant to address the City's needs with respect to the City's Affordable Housing Strategy.

# **Public Art Policy**

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

# **PUBLIC ENGAGEMENT**

• Pre-notification letters were first sent on August 24, 2018, then on October 7, 2020 and subsequently on November 20, 2023. Development Proposal Signs were installed on October 8, 2020, and is reflective of the apartment proposal. The applicant confirmed in November 2023 via photographs that the signs are still in place on the property. The 2018 prenotification was for a previous townhouse proposal, not the current apartment proposal. The October 2020 and November 2023 pre-notifications were for the apartment proposal. There was no response to the most recent notification.

# **Public Information Meeting**

• A Public Information Meeting (PIM) was held on October 22, 2020, online over Zoom, in two online sessions. The meeting included City of Surrey Planning and Transportation Engineering staff, and the applicant's project team. Two (2) attendees from the public attended and four (4) questions were asked. No emails or comment forms were received in response. Concerns that were heard through the process included traffic concerns, school capacity concerns and crime concerns.

The proposal is consistent with the OCP and Newton-King George Boulevard Plan designations. The applicant will be dedicating and constructing to a half-road standard for 61A Avenue, and completing 136A Street. This is consistent with the Newton-King George Boulevard Plan. With regard to crime concerns, the proposal implements Crime Prevention through Environmental Design (CPTED) design principles, with street-facing units with windows and active rooms along the streets and appropriate lighting, to assist with providing "eyes on the street".

# **DEVELOPMENT PERMITS**

## Sensitive Ecosystems (Streamside Areas) Development Permit Requirement

- The subject property falls within the Sensitive Ecosystems Development Permit Area (DPA) for Streamside Areas in the OCP, given the location of an existing Class B (yellow-coded) channelized stream along the west side of King George Boulevard which flows east via culvert to Archibald Creek, which is located on the east side of King George Boulevard. 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 B (yellow-coded) channelized stream requires a minimum streamside setback of 15 metres, as measured from the top of bank.
- The portion of Class B (yellow-coded) channelized stream only exists fronting the most southerly existing lot (6081 King George Boulevard) within the development site. Then it crosses a culvert on King George Boulevard and enters into Archibald Creek on the other side of the street. The portion of the watercourse north of the culvert crossing is a Class C (green-coded) ditch. Relocation of this portion of the stream will be required in the future to facilitate road widening on King George Boulevard. However, since only a small portion of the stream is fronting the subject site, the relocation will be done in the future. The applicant has agreed to pay cash-in-lieu to cover the relocation to facilitate the relocation in the future within City-owned land.
- An Ecosystem Development Plan, prepared by John Black, *R.P. Bio.*, of JBL Environmental Services Ltd. and dated July 8, 2022. A peer review is still required and is a condition of Final Adoption. The finalized report and recommendations will be incorporated into the Development Permit.

# Form and Character Development Permit Requirement

- The applicant is proposing to construct three (3) low-rise apartment buildings with a total of 198 residential units. Proposed Buildings 1 and 2 are 6-storeys in height and front King George Boulevard. Proposed Building 3 fronts 136A Street and is 4-storeys in height to provide a more sensitive transition to the existing single-family lots to the west across 136A Street.
- The unit mix consists of 6 studios, 116 one-bedroom or one-bedroom plus den and 76 two bedroom or two-bedroom plus den units.

- The design character of the buildings are contemporary, marked by their rectilinear forms and mostly panelized facades. The lower four storeys of each of the buildings are strongly portrayed as a foreground using a range of brown tones and tracing its silhouette with a brown with the upper two storeys as a disappearing background with less detailing and beige tones. The lower two storeys are further detailed towards the appearance of 2-storey townhouses to humanize the street level scale.
- The building massing tapers down towards 61A Avenue to transition its height towards lower scale developments. The upper storeys have step-backs to modulate the massing and scale of the building appearance as a response to the evolving neighborhood and maintain a balanced arrangement of massing on the sloping site to resolve its streetscape integration.
- Building materials include fibre cement panel siding, horizontal fibre cement siding, metal panel feature accents and brick veneer cladding to provide for greater visual interest. The balconies are defined with metal guardrails with transparent glass panels for a light appearance.
- The building orientation ensures the units will provide greater observation of the public realm with active rooms facing toward the street and pedestrian walkways which helps to address Crime Prevention Through Environmental Design (CPTED) concerns.
- The proposed building achieves an attractive architectural form, using a contemporary character with high-quality materials. The street interface has been designed to a high standard in order to achieve a positive urban experience between the proposed building and the public realm.
- Ground-floor units have front door access with weather protection above and usable, private/semi-private outdoor space to activate the public realm interfaces

# Indoor Amenity

- The proposed indoor amenity space is centrally located on the main floor of Building 1, and partially below and above grade at Building 2 and 3. The indoor amenity in Building 1 is a lounge area, and connects directly with adjacent outdoor amenity space. The indoor amenity in Building at Buildings 2 and 3 includes a gym, flex area, yoga room, multi-purpose room, theatre and library.
- The proposed indoor amenity space is approximately 859 square metres in total area which exceeds the 594 square metres required under the Zoning Bylaw based on a total of 3 square metres per dwelling unit.

# Outdoor Amenity and Proposed Landscaping

• The at-grade outdoor amenity space is centrally located and directly adjacent to the indoor amenity spaces. The at-grade outdoor amenity space includes a children's play area, two barbeque and outdoor kitchen areas, outdoor dining area, lounge areas, an outdoor dance floor and lawn areas.

- The proposed outdoor amenity space is roughly 1,254 square metres which exceeds the minimum outdoor amenity space requirement, per the Zoning Bylaw, based on a total of 3 square metres per dwelling unit.
- The ground-oriented units in the buildings are proposed to have small private patios or front yards enclosed with low picket fencing.
- The dwelling units fronting onto King George Boulevard will have semi-private patio space and direct access to a private pathway leading to a connection to the King George Boulevard sidewalk.
- Each apartment unit that faces onto the street frontage will provide an "eyes-on-the street" function with active rooms facing toward the public realm.
- Exterior lighting is designed to reduce light pollution as well as provide adequate lighting to ensure community safety, in keeping with CPTED principles.
- The applicant proposes to provide a corner plaza that consists of bench seating, a bike rack, and low-level planting at the intersection of King George Boulevard and 61A Avenue.

# **Outstanding Items**

- There are a number of Urban Design items that remain outstanding. These generally include refining the building massing to reduce the vertical emphasis, improving the sunken situation of the floor level units of Buildings 2 and 3 to provide increased light and outlook, and improving the daylighting within the subterranean indoor amenity space.
- The applicant has been provided a separate detailed list identifying these requirements and has agreed to resolve these issues prior to Final Approval of the Development Permit, should the application be supported by Council.

# TREES

• Max Rathburn, ISA Certified Arborist of Diamondhead Consulting prepared an Arborist Assessment for the subject property. The table below provides a summary of the proposed tree retention and removal by tree species:

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| Table 1: Summary of Proposed Tree                                      | Freserva   | ation by Tr | ee species: |        |  |
|--|------------|-------------|-------------|--------|--|
| Tree Species   | Ex         | isting      | Remove      | Retain |  |
| Alde   | r and Co   | ttonwood    | Trees       |        |  |
| Alder  |            | 2           | 2           | 0      |  |
|  | Decidu     | ous Trees   |             | ·      |  |
| (excluding   | g Alder aı | nd Cottonw  | ood Trees)  |        |  |
| Bigleaf Maple  |            | 1           | 1           | 0      |  |
| Beaked Hazelnut  |            | 1           | 0           | 1      |  |
| Norway Maple   |            | 2           | 0           | 2      |  |
| Horsechestnut  |            | 1           | 1           | 0      |  |
| Japanese Cherry  |            | 4           | 3           | 1      |  |
| Japanese Maple   |            | 1           | 1           | 0      |  |
| Mountain Ash   |            | 1           | 0           | 1      |  |
| Purple Plum  |            | 1           | 1           | 0      |  |
| Laburnum   |            | 1           | 1           | 0      |  |
| Magnolia   |            | 1           | 1           | 0      |  |
|  | Conife     | rous Trees  |             | •      |  |
| Douglas Fir  |            | 37          | 25          | 12     |  |
| Lawson Cypress   |            | 4           | 4           | 0      |  |
| Sawara Cypress   |            | 1           | 1           | 0      |  |
| Western Hemlock  |            | 1           | 1           | 0      |  |
| Western Redcedar   |            | 28          | 22          | 7      |  |
| <b>Total</b> (excluding Alder and Cottonwood Trees)                    | 86         |             | 62          | 24     |  |
| Total Replacement Trees Proposed<br>(excluding Boulevard Street Trees) | 1          |             | 70          |        |  |
| Total Retained and Replacement T<br>Proposed                           | 'rees      |             | 94          |        |  |
| Estimated Contribution to the Gre<br>Program                           | en City    | \$22,400    |             |        |  |

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

- The Arborist Assessment states that there are a total of 88 mature trees on the site. Two (2) of the existing trees on the site are Alder and Cottonwood trees, which are proposed to be removed. The applicant proposes to retain 24 trees as part of this development proposal. The proposed tree retention was assessed taking into consideration the location of services, building footprints, parkades, road dedication and proposed lot grading.
- For those trees that cannot be retained, the applicant will be required to plant trees on a 2 to 1 replacement ratio. This will require a proposed total of 126 replacement trees on the site. Since the proposed 70 replacement trees can be accommodated on the site, the proposed deficit of 56 replacement trees will require an estimated cash-in-lieu payment of \$22,400, representing \$400 per tree (under the grand fathered rate), to the Green City Program, in accordance with the City's Tree Protection By-law.
- In addition to the replacement trees, boulevard street trees will be planted on 136A Street. This will be determined by the Engineering Department during the servicing design review process.

- The new trees on the site will consist of a variety of trees including David's Maple, Princess Diana Serviceberry, Slender Hinoki False Cypress, Pink Flowering Dogwood, Leylands Cypress, Serbian Spruce, English Oak, and Whitebeam Mountain Ash.
- In summary, a total of 94 trees are proposed to be retained or replaced on the site with an estimated contribution of \$20,800 to the Green City Program.

# INFORMATION ATTACHED TO THIS REPORT

The following information is attached to this Report:

| Appendix I.   | Site Plan, Building Elevations, Landscape Plans and Perspective |
|---------------|---|
| Appendix II.  | Engineering Summary   |
| Appendix III. | School District Comments  |
| Appendix IV.  | Summary of Tree Survey, Tree Preservation and Tree Plans        |
| Appendix V.   | Newton-King George Boulevard Plan                               |
| Appendix VI   | ADP Comments and Response                                       |

Appendix VI. ADP Comments and Response

approved by Shawn Low

Don Luymes General Manager Planning and Development

# Issued for DP

|                                 | · · · · · · · · · · · · · · · · · · ·                  | SITE STATISTICS                     |  |                    |                           |                         |                  |           |                           |     |
|---------------------------------|--|-------------------------------------|--|--------------------|---------------------------|-------------------------|------------------|-----------|---------------------------|-----|
|                                 |  |                                     |  |                    |                           |                         | L                | EVELS     |                           |     |
| CIVIC ADDRESS:                  |  | 608:                                | 1,6095,6111,6121 & 6                   | 131 KING GEORGE BL | VD. SURREY, BC            |                         |                  |           | BUILDING 1                |     |
| LEGAL DISCRIPTION               |  |                                     |  |                    |                           |                         |                  |           | 1 BED UNIT                | T   |
|                                 |  |                                     | SECTION 9 TOWNSHI                      |                    |                           |                         | -                |           |                           |     |
|                                 |  |                                     | 9 TOWNSHIP 2 PLAN                      |                    |                           |                         | -                |           | 1 BED + DEN UNIT          |     |
|                                 |  |                                     | 9 TOWNSHIP 2 PLAN                      |                    |                           |                         | -                |           |                           | T   |
|                                 |  |                                     | ECTION 9 TOWNSHIP<br>ECTION 9 TOWNSHIP |                    |                           |                         | -                |           | 2 BED UNIT                |     |
|                                 |  |                                     | SECTION 9 TOWNSHIP                     |                    |                           |                         | -                |           |                           | T   |
|                                 |  | 0012                                | Section 5 Townshi                      | 210441447 15050    | 1440 01 144 2/4           |                         |                  |           | 2BED + DEN UNIT           |     |
| ZONING                          |  |                                     | RE TO C                                | D BASED ON RM 45   |                           |                         | 1                |           | LOLD - DEITOITT           | +   |
|                                 |  |                                     |  |                    |                           |                         |                  |           | 3BED                      | +   |
| GROSS SITE AREA:                | 103694 ft2   | 9633.5m2                            |  | 2.38 Acre          |                           |                         |                  |           | 3010                      | +   |
| ROAD DEDICATIONS + UNDEV. AREA: | 22389.93 ft2   | 2080 m2                             |  | .51 Acre           |                           |                         | 1                |           | STUDIO                    | -   |
| NET AREA                        | 85402.65 ft2   | 7934.16 m2                          |  | 1.96 Acre          |                           |                         |                  |           | STUDIO                    | -   |
| NET AREA                        | 81304.29 ft2   | 7553.42 m2                          |  | 1.87 Acre          |                           |                         |                  |           |                           |     |
|                                 |  |                                     |  |                    |                           |                         | -                |           |                           | -   |
| ZONING CD I                     | BASED ON RM 70   |                                     |  |                    |                           |                         | -                |           | BUILDING 2                | +   |
|                                 |  | ALLOWED                             |  |                    | PROVIDED                  |                         |                  |           | 1 BED UNIT                | 4   |
|                                 | SETBACKS<br>NORTH SIDE                                 |                                     |  |                    | 6.0 m                     |                         |                  |           |                           | +   |
|                                 | SOUTH SIDE   |                                     |  |                    | 7.5 m                     |                         | -                |           | 1 BED + DEN_UNIT          | 4   |
|                                 | EAST SIDE  | 1                                   |  |                    | 8.20 m                    |                         | 1                |           |                           |     |
|                                 | WEST SIDE  |                                     |  | 1                  | 6.0 m                     |                         | 1                |           | 2 BED UNIT                |     |
| LOT COVERAGE                    | 1  |                                     |  |                    |                           | 1                       | 1                |           |                           |     |
|                                 |  |                                     |  |                    |                           |                         | 1                |           | 2BED + DEN UNIT           | 4   |
|                                 | PROPOSED   | 48%                                 | 5                                      |                    |                           |                         |                  |           |                           |     |
|                                 |  |                                     |  |                    |                           |                         |                  |           | 3BED                      |     |
| DENISTY                         |  |                                     |  |                    |                           |                         |                  |           |                           |     |
|                                 | PROPSOED FSR   |                                     |  |                    |                           |                         |                  |           | STUDIO                    | Т   |
|                                 |  | 15065.15 Sq.Mt. / 9633.5 S          | q.Mt. on Gross                         | 1.56               | 6 Gross                   |                         |                  |           |                           | _   |
|                                 |  |                                     |  |                    |                           | Based on Final property |                  |           |                           |     |
|                                 |  | 15065.15Sq.Mt. / 7553.42            |  |                    | 1 Net                     | line at 15m setback     | -                |           | BUILDING 3                |     |
|                                 |  | 15065.15 Sq.Mt. / 7934.16           | Sq.Mt. on Net                          | 1.9                | 9 Net                     | Based on 5m setback     | -                |           | 1 BED UNIT                | T   |
| BUILDING FLOOR AREA             |  | (EXCLUDING PARKING)                 |  |                    |                           |                         | -                |           | 1000 0111                 | +   |
| MIX USE BUILDING                |  | [EACLODING PARKING]                 | RESIDNETIAL                            |                    |                           |                         | -                |           | 1 BED + DEN UNIT          | +   |
| Nink OSE DOIEDING               | RESIDNETIAL  | RESIDNETIAL                         | Restorense                             |                    |                           | 1                       | -                |           | TOLD I DEN ONIT           | +   |
| LEVELS                          | BUILDING 1   | BUILDING 2                          | BUILDING 3                             |                    |                           |                         |                  |           | 2 BED UNIT                | +   |
| LEVEL 1                         | 958.37 Sq.Mt.  | 1,219.08 Sq.Mt.                     |  |                    |                           |                         | 1                |           | 2 BED UNIT                | ۰.  |
| LEVEL 2                         | 1,027.72 Sq.Mt.  | 1,238.03 Sq.Mt.                     | 571.26 Sq.Mt.                          |                    |                           |                         | 1                |           | 0050 05111017             | ÷   |
| LEVEL 3                         | 1,027.72 Sq.Mt.  | 1,210.34 Sq.Mt.                     | 532.52 Sq.Mt.                          |                    |                           |                         |                  |           | 2BED + DEN UNIT           | 4   |
| LEVEL 4                         | 1,027.72 Sq.Mt.  | 1,210.34 Sq.Mt.                     | 539.11 Sq.Mt.                          |                    |                           |                         |                  |           |                           | +   |
| LEVEL 5                         | 842.07 Sq.Mt.  | 1,210.31 Sq.Mt.                     | 503.39 Sq.Mt.                          |                    |                           |                         |                  |           | 3BED                      | _   |
| LEVEL 6                         | 787.10 Sq.Mt.  | 1,160.07 Sq.Mt.                     |  |                    |                           |                         |                  |           |                           | -   |
|                                 | 5,670.70 Sq.Mt.  | 7,248.17 Sq.Mt.                     | 2,146.28 Sq.Mt.                        |                    |                           |                         |                  |           | STUDIO                    | 4   |
| TOTAL AREA                      |  | 1                                   | 5,065.15 Sq.Mt.                        |                    |                           |                         |                  |           |                           |     |
| AMENITY SPACE                   |  |                                     | -                                      | -                  |                           |                         | -                |           |                           |     |
|                                 | INDOOR AMENITY<br>75 Sq.Mt. for 25units + 1m2 per unit | REQUIRED<br>248 Sg.mt.              |  |                    | PROVIDED<br>856.20 Sq.mt. |                         | -                |           |                           |     |
|                                 | 75 Sq.Wit. for 25urits + 1m2 per unit                  | 246 50.000                          |  |                    | 856.20 Sq.mt.             |                         |                  |           |                           |     |
|                                 | OUTDOOR AMENITY  |                                     |  |                    |                           |                         | Т                | OTAL NU   | IMBER OF UNITS            |     |
|                                 | 3 SQ. Mt. for every unit                               | 198x 3Sq.Mt. = 600 Sq.Mt.           |  |                    | 1254 Sq.Mt.               |                         | -                |           |                           |     |
|                                 | o out interfor every unit                              | 150x 550,me - 000 50,me             |  |                    | 12.54 50,1111             |                         |                  |           |                           |     |
| PARKING                         |  |                                     |  |                    |                           |                         |                  |           |                           |     |
|                                 | TOTAL UNITS 198  | REQUIRED                            |  |                    | PROVIDED                  |                         | BIKE PARKING RE  | QUIREME   | NTS :                     |     |
|                                 | 122 UNITS 1 OR NO BED UNITS                            | 1.3 PER UNIT = 159 STALLS           |  |                    |                           |                         | CLASS A          |           |                           |     |
|                                 | 76 UNITS 2 OR MORE BED UNITS                           | 1.5 PER UNIT = 114 STALLS           |  |                    |                           |                         |                  |           |                           |     |
|                                 |  | 273 STALLS                          |  |                    | 273 STALLS                |                         |                  |           | S PER UNIT : 198 UNITS =2 | :38 |
|                                 |  |                                     |  |                    |                           |                         | PROVIDED : 240 S | IALLS + 9 | IS LOCKERS                |     |
| VISITOR PARKING, HANDICAP AND I | BIKE PARKING   |                                     |  |                    |                           |                         |                  |           |                           |     |
|                                 |  | REQUIRED                            |  |                    | PROVIDED                  |                         | CLASS B:         |           |                           |     |
| VISITOR PARKING                 | TOTAL UNITS : 198                                      | 198 X .2 = 40 STALLS                |  |                    | 40 STALLS                 |                         |                  |           |                           |     |
|                                 | TOTAL UNITS : 198<br>H/C 2% of total parking           | 198 X .2 = 40 STALLS<br>289x 2% = 6 |  |                    | 40 STALLS<br>14 STALLS    |                         | REQUIRED : 6 STA |           | BUILDING TOTAL OF 18 ST   | ALL |
| VISITOR PARKING                 | TOTAL UNITS : 198                                      | 198 X .2 = 40 STALLS                |  |                    | 40 STALLS                 |                         |                  |           | BUILDING TOTAL OF 18 ST   | ALL |

| S  |                  | 1 | 2  | 3  | 4  | 5  | 6  |         |                 |
|----|------------------|---|----|----|----|----|----|---------|-----------------|
|    | BUILDING 1       |   |    |    |    |    |    |         | TOTAL UNIT TYPE |
|    | 1 BED UNIT       | 1 | 3  | 3  | 3  | 6  | 6  | 22      | 22              |
|    |                  |   |    |    |    |    |    |         |                 |
|    | 1 BED + DEN_UNIT | 5 | 6  | 6  | 6  | 0  | 0  | 23      | 23              |
|    |                  |   |    |    |    |    |    |         |                 |
|    | 2 BED UNIT       | 1 | 5  | 5  | 5  | 6  | 6  | 28      | 28              |
|    |                  |   |    |    |    |    |    |         |                 |
|    | 2BED + DEN UNIT  | 0 | 0  | 0  | 0  | 0  | 0  | 0       | 0               |
|    |                  |   |    |    |    |    |    |         |                 |
|    | 3BED             | 0 | 0  | 0  | 0  | 0  | 0  | 0       | 0               |
|    |                  |   |    |    |    |    |    |         |                 |
|    | STUDIO           | 0 | 0  | 0  | 0  | 0  | 0  | 0       | 0               |
|    |                  | - | -  | -  | -  | -  |    | 73      |                 |
|    |                  |   |    |    |    |    |    | 15      |                 |
|    | BUILDING 2       |   |    |    |    |    |    | TOTAL   | TOTAL UNIT TYPE |
|    | 1 BED UNIT       | 1 | 0  | 2  | 2  | 2  | 2  | 101AL 9 | 9               |
|    | T BED UNIT       | 1 | 0  | 2  | 2  | 2  | 2  | 9       | 9               |
|    |                  |   | -  | -  |    | -  |    |         |                 |
|    | 1 BED + DEN_UNIT | 7 | 7  | 7  | 7  | 7  | 7  | 42      | 42              |
|    |                  |   |    |    |    |    |    |         |                 |
|    | 2 BED UNIT       | 6 | 6  | 6  | 6  | 6  | 6  | 36      | 36              |
|    |                  |   |    |    |    |    |    |         |                 |
|    | 2BED + DEN UNIT  | 0 | 1  | 1  | 1  | 1  | 1  | 5       | 5               |
|    |                  |   |    |    |    |    |    |         |                 |
|    | 3BED             | 0 | 0  | 0  | 0  | 0  | 0  | 0       | 0               |
|    |                  |   |    |    |    |    |    |         |                 |
|    | STUDIO           | 0 | 1  | 0  | 0  | 0  | 0  | 1       | 1               |
|    |                  |   |    |    |    |    |    | 93      |                 |
|    |                  |   |    |    |    |    |    |         |                 |
|    | BUILDING 3       |   |    |    |    |    |    | TOTAL   | TOTAL UNIT TYPE |
|    | 1 BED UNIT       | 0 | 5  | 5  | 5  | 4  | 0  | 19      |                 |
|    |                  |   |    | _  |    |    |    |         |                 |
|    | 1 BED + DEN UNIT | 0 | 0  | 0  | 0  | 1  | 0  | 1       | 1               |
|    | 2010 FOLK ONT    | 0 |    | 0  | 0  | 1  | 0  |         |                 |
|    | 2 BED UNIT       | 0 | 2  | 2  | 2  | 1  | 0  | 7       | 7               |
|    | 2 BLD UNIT       | 0 | 2  | 2  | 2  | 1  | 0  | /       | /               |
|    | 0050 050 000     |   | 0  |    |    |    |    |         | 0               |
|    | 2BED + DEN UNIT  | 0 | 0  | 0  | 0  | 0  | 0  | 0       | 0               |
|    |                  |   |    |    |    |    |    |         |                 |
|    | 3BED             | 0 | 0  | 0  | 0  | 0  | 0  | 0       | 0               |
|    |                  |   |    |    |    |    |    |         |                 |
|    | STUDIO           | 0 | 1  | 1  | 1  | 2  | 0  | 5       | 5               |
|    |                  |   |    |    |    |    |    | 32      |                 |
|    |                  |   |    |    |    |    |    |         |                 |
|    |                  | 7 | 14 | 14 | 14 | 12 | 12 |         |                 |
|    |                  |   |    |    |    |    |    |         |                 |
| NU | UMBER OF UNITS   |   |    |    |    |    |    | 198     | 198             |

|   | AMENITY SPACE |                    |               |  |  |  |
|---|---------------|--------------------|---------------|--|--|--|
| BIKE PARKING REQUIREMENTS :                                 |               | INDOOR AMENITY     | PROVIDED      |  |  |  |
|   |               |                    | 275.54 Sq.Mt. |  |  |  |
| CLASS A   |               | SYM .              | 189.25 Sq.Mt. |  |  |  |
|   |               |                    | 74 Sq.Mt.     |  |  |  |
| REQUIRED : 198X 1.2 STALLS PER UNIT : 198 UNITS =238 STALLS |               | LIBRARY            | 41.31 Sq.Mt.  |  |  |  |
| ROVIDED : 240 STALLS * 95 LOCKERS                           |               | MULTI-PURPOSE HALL | 101.17 Sq.Mt. |  |  |  |
|   |               | YOGA ROOM          | 55.75 Sq.Mt.  |  |  |  |
| CLASS B:  |               |                    | 119.18 Sq.Mt. |  |  |  |
| REQUIRED 16 STALLS PER BUILDING TOTAL OF 18 STALLS          |               |                    | 856.20 Sq.mt. |  |  |  |
| REQUIRED : 6 STALLS PER BUILDING TOTAL OF 16 STALLS         |               | DUTDOOR AMENITY    |               |  |  |  |
| ROVIDED : 16 STALLS   |               |                    |               |  |  |  |
|   |               |                    | 54 Sq.Mt.     |  |  |  |
|   |               |                    | 391 Sq.Mt.    |  |  |  |
|   |               |                    | 300 Sq. Mt.   |  |  |  |
|   |               |                    | 281 Sq. Mt.   |  |  |  |
|   |               |                    | 2.28 Sq.Mt    |  |  |  |
|   |               |                    | 1254 Sq.Mt.   |  |  |  |

|   | <br> <br>   |                             |                   |               |             |            |            |                      |   |  |  |
|---|---|-----------------------------|-------------------|---------------|-------------|------------|------------|----------------------|---|--|--|
|   | Unit 209- 6321 King George Blvd<br>Surrey BC, V3X 1G1<br>www.flatarchitecture.ca<br>contact@flatarchitecture.ca |                             |                   |               |             |            |            |                      |   |  |  |
| Ŀ | Ph: I   | 504                         | -<br>503          | -44<br>R      | B4          | Ι          | S          | E                    |   |  |  |
|   |   | ED01 E121 King Coordo Divid |                   | Surrev.BC     |             | NED SAS    | CLIENT:    | Mortise Construction |   |  |  |
| L | AT  | 2                           | 28-               | Ma            | ay-         | 23         |            |                      |   |  |  |
|   | ro<br>19-   | 21                          | 2                 | NC            |             |            |            | N BY                 |   |  |  |
|   | CA  | LE                          |                   |               | - L         | JKA        | ٩W         | N B1                 |   |  |  |
| ŝ | CA<br>S   |                             |                   |               | F           | R.V        | V          | _                    | í |  |  |
| ŝ |   | NC                          | te<br>Reins       | 17216         | 10.03       | 220%       | 15 05 11   | DATE                 |   |  |  |
| ŝ |   | No<br>e                     |                   |               | F           |            | V          | _                    |   |  |  |
| ŝ |   | E0F080P US 25:H23 O         | te 12448 31 4040. | U.S. 29:05-23 | U.S. 246523 | U.S. 88822 | R.11 15621 | DATE                 |   |  |  |











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FLAT. ARCHITECTURE

Unit 209- 6321 King George Blvd Surrey BC, V3X 1G1 www.flatarchitecture.ca contact@flatarchitecture.ca

inter 1

384 OOLUM

Construction

CLIENT: Mortise

Ph: 604-503-4484

6081-6131 King George Blvd Surrey, BC

PROJECT INFO:

DATE

CONTEXT PLAN

A-102

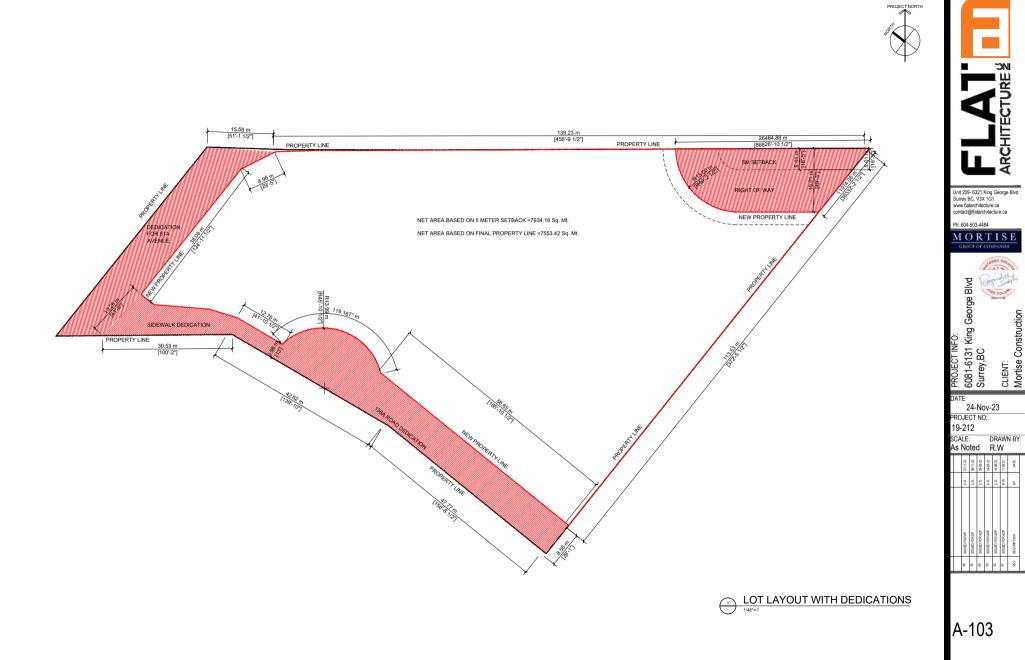


A-102A

yund and

Construction

CLIENT: Mortise (







A-105



A-105A

#### FORM DEVELOPMENT:

With the ragging issue of housing for the masses, the client brief entailed for the development to be an abode among the forest, where the tranquility of the province is encapsulating the interplay of the built and the un-built. The building massing has been designed in response to the development guidelines in the OCP. The mass along King George Blvd. fortifies the evolving morphology of the urban scape of the city of surrey at the same time intermittently breaking for an interlude of un-built to pop out. After the first four-story steps back at the same time on cooperating different materials in creating a relatability in the form to an existing context. The proposal incorporates a 1.8 m sidewalk with a 4.5 meters landscape buffer between the city landscape, in a prelude to a different placemaking opportunity, some organic, like the grove of trees between building1 and building 2 which transitions into the outdoor amenity and forks back through the informal space onto King George Blvd. the others meander and connects through to 136 A street, building a much-needed public realm that connects the neighborhood to King George Blvd.

The lower four stories façade of building 1,2 and 3 are detailed with repetitive frames, which connect the 3 buildings, at the same time establish their individuality through the material by using highlighting colors Goodwin Green Metal Panel, ratel metal Panel, and Mediterranean Olive Respectively. The framed fragade is interlaced with the balconies to define the built from the edge while at the same time mollifying and providing relief to the façade.

as one moves through the proposal absorbing the dynamic but soothing and sobering visual perspective. one finds the easily locate entrance through the building with the use of black metal panel box frames inlaid with knotted pine metal sidings.

The roof lines are the highest that of building 3 and then step down both up north and the west dramatically breaking away from the form and highlighting the embodiment of the topography at same time reducing the vertical scale of the proposal.

The outdoor amenity is located at the confluence of the 3 buildings as an embodiment of a modern-day melting pot. The indoor amenity is split between building 1 terrace overlooking and encapsulating the changing landscape, whereas the other 's is layered between outdoor amenities highlighting the opportunity of the melting pot, with a sifety in mind, the payfully cartled outdoor amenity is articulated with a Glass guard rail to reduce and keep the visual connection intact even though the physical transcends between the levels.

Bicycle Storage, Garbage /recycle room, and mechanical /electrical rooms are located on the underground parkade level Indoor and Outdoor provided and discussed is consistent with the size of the development and meets the zoning by-laws requirements.



MOVING PERSPECTIVE



A-105 B

#### SUSTAINABILITY DESIGN MOVES :

The proposal entails 3 buildings with simple mass, with lower VFAR and considerable floor plate. The orientation of the building takes advantage of the site locate along the King George Blvd. As it turns away from north south axis by 30 degrees. Building 1 and building 2 are positioned along it while building 3 is positioned along the East -West axis. To take advantage of the Natural Light, at the same time have solar gain in the winters. The building façade has been designed in a manner, where interplay of shadow as the facade element becomes a shadow device.

The building has an adequate amount of unit density making a balanced approach between TED and TEUI.

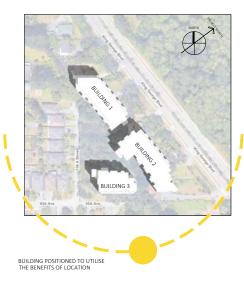
The window to wall ratio is around 38.5% making it comfortable for the occupant load.

The building is being designed in a manner, where every unit is an air tight compartment of 1.2 air change.

The building will have an H/ERV system, which will act as a heat recovery ventilation system for the building.

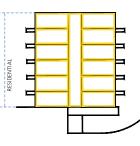
The roof has been designed as a Low albedo roof.

Much of the site vegetation has been retained. The landscape designed as un-built add to the vegetation provides the needed shade.





COMBINED SITE PLAN



Air Tightness Compartment with air cycle 1.2 REFERENCE: BC ENERGY STEP CODE . V 1.1. July 2019

#### SUSTAINABILITY DESIGN STROKES:

- 1) Location and Transportation: for propagating environmentally responsible transit, facilities have been incorporated in design.
- Bicycle Storage
- Electrical Vehicle Charging Stations

2) Sustainable Site: In addition to retaining the site and incorporating lot of vegetation on site following measures have been made part of the design.

- 4.5 m of green landscape buffer along
- King George Blvd.

· Exterior lighting to reduce pollution

3) Water Efficiency: to promote efficacious use of water following design gestures have been actively considered as part of the design. Water efficient fixtures for internal residential units.

- Storm water Management (coordinating with the consultant for efficacious solution)

4) Energy & Atmosphere: Keeping in mind that there would be considerable amount of unit density, to keep the TEUI in check.

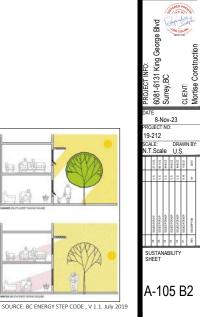
Energy efficient appliances and units

5) Materials and Resources: even though we have design moves that cap the window to wall ratio at around 38.5%, there has been consideration made for providing better

- Indoor Environmental quality
- Openable windows
- Davlighting and Quality Views



LIGHTING PLAN : SHOWING CONTAINED LIGHTING ENVIRONMENT

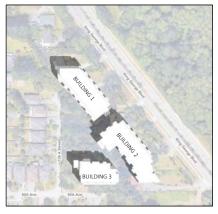


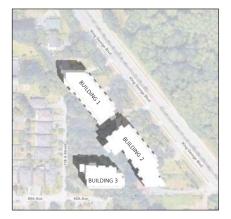
Surrey BC, V3X 1G1

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MORTIS







10 AM 20 MARCH

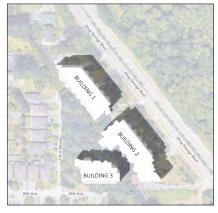


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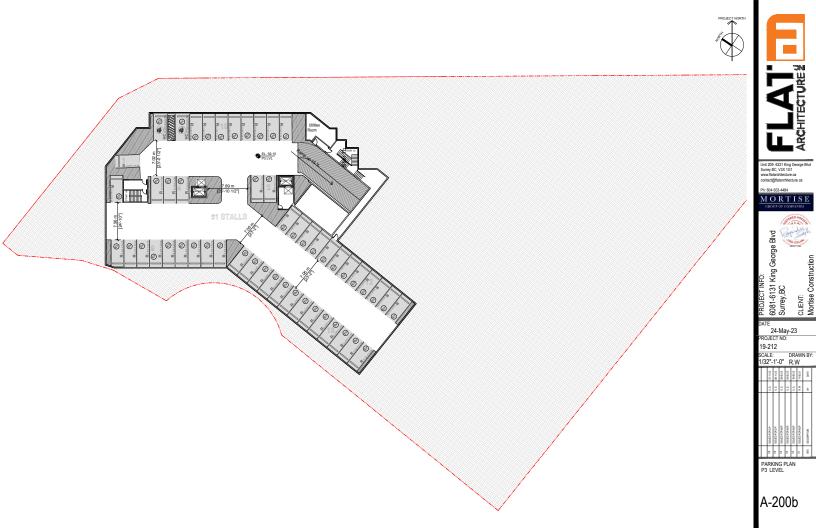
SHADOW STUDY

A-105 C

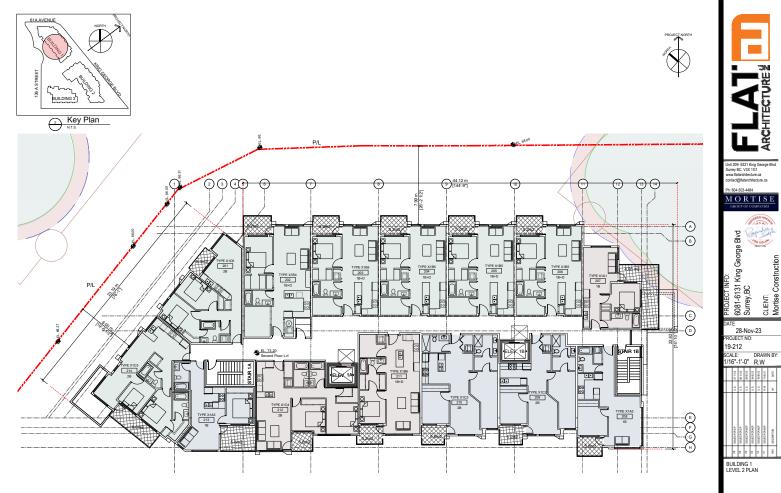






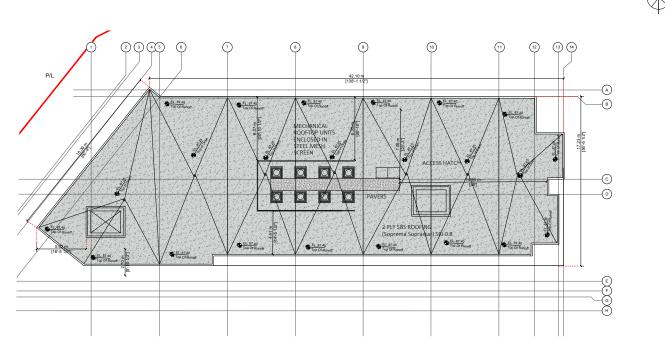


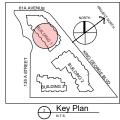




t LEVEL 2 PLAN (Bldg 1)

#### AB1-202





PROJECT NORTH

ARCHITECTURE

Unit 209- 6321 King George Blvd Surrey BC, V3X 1G1 www.flatarchitecture.ca

contact@fatarchitecture.ca

MORTISE GROUP OF COMPANIES

ALL SACH

Cart Co.um

Construction

CLIENT: Mortise (

DRAWN BY: I/16"=1'-0" R.W

Ph: 604-503-4484

PROJECT INFO: 6081-6131 King George Blvd Surrey,BC

DATE 9-Nov-23 ROJECT NO:

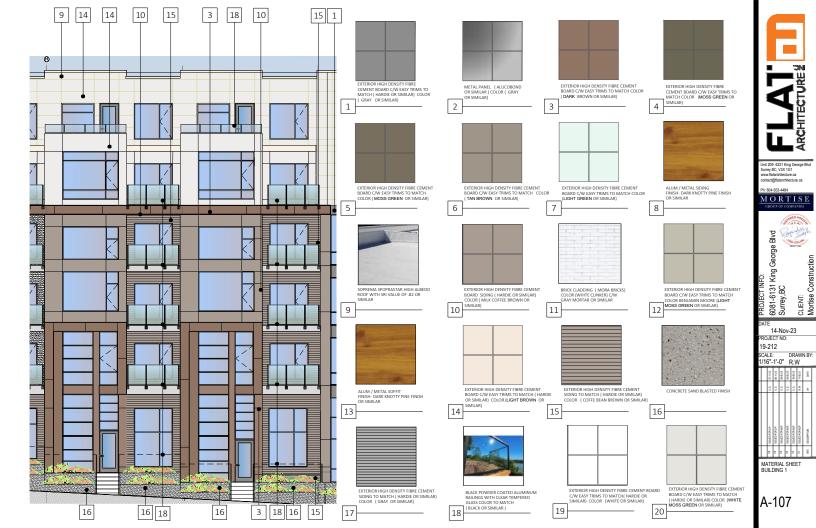
19-212

SCALE:

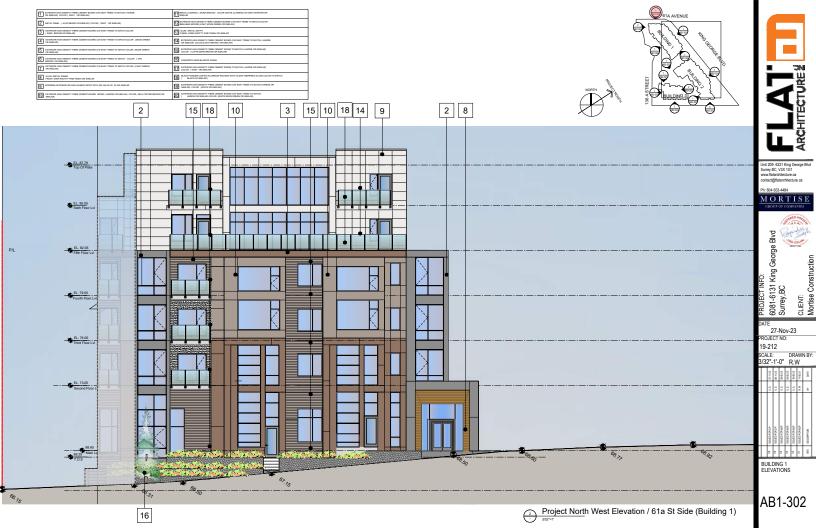
LEVEL 7 ROOF PLAN (Bldg1)

AB1-207

BUILDING 1 ROOF PLAN

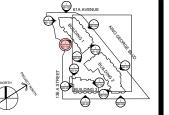








| EXTERIOR HIGH DENSITY FIRE CEMENT BOARD ON BASY TRUE TO MATCH   HARDE<br>OR BINLAR), COLOR ( CRUY, OR BINLAR) | BIROX CLADDING ( MORA BROCE) COLOR (WHITE CLINERY) CHI GRAY MORTAK OK<br>BIRLAR                                      |  |  |  |
|---|--|--|--|--|
| SILLAT MART (WITCHORD ON SIREAM) COTON ( OWAY, ON SIMILAN)  | EXTERIOR HIGH DEMINY PERMICISIENT BOARD CW LARY TRAVE TO MATCH COLOR<br>BELLIMEN MICHIE (LEHT MORE GREEN OR SIMILAR) |  |  |  |
| EXTERCE HER DENSITY FIRM CAMENT BOARD ON BAILY TRIMS TO MATCH COLOR     (DRIVE BROWN OF BINLAR)               | REAL / METRIC ROPPIT<br>PREMA DAVID CAUCITY PINE PINEM OR RAMLAR   |  |  |  |
| EXTERCEMENT DENSITY FERE CEMENT BOARD ON EASY TREE TO MATCH COLOR (MORE ORIEN<br>OR EMLAN)                    | A BATERIOR HEH DINETT FIBE CAMENT BOARD ON BARY TREE TO MATCH   HARDE<br>OR BELAR) COLOR (JUST BROWN OR BEMLAR)      |  |  |  |
| EXTENSION HIGH CEMENT FERE CEMENT BOARD ON EASY TRANS TO MATCH COLOR ( MORE OPEN<br>OR SIMULAR)               | STREAM HER DENETTYTER CANING LONG TO MATCH (HARDE OR BINLAR)<br>COLOR (COTTE BEAN BROWN OR BINLAR)                   |  |  |  |
| EXTENSION HIGH DEMAINTY FRAME CEMENT BOARD ON EASY TRAME TO MATCH. COLOR. ( TAN<br>BROWN OF EMALOR)           | CONCRETE SAND BLASTED FINISH   |  |  |  |
| T EXTERIOR HIGH DENSITY FIBRE CEMENT BOARD OW BARY TRIMS TO MATCH COLDR. (JUSHT DREEN<br>OR BIMLIN)           | COLOR (GRK/ OR SMILAR)   |  |  |  |
| ALLIN I METAL BONG<br>PROM DARK HIGHTY PRIM PROM OR BINLAR  | BACK POWDER COATED ALLMINIAM MALINES WITH CLEAR TEMPERED GLASS COLOR TO MATCH<br>(BLACK ON SIMILAR)                  |  |  |  |
| BOPPENA SPOPPAETAR HORALEED NOOP WITH SRI VALUE OF 32 OR EMLAR  | EXTERIOR HEH DENETY FIBRE CAMENT BOARD CW BARY TRAIS TO MATCH, HARDE OK<br>BIBLAR, COLOR, WHITE OR BIBLAR            |  |  |  |
| EXTERIOR HEN DENETT FERE CEMENT BOARD BOING ( HANDE OR SIMLAR), COLOR ( MLK COPPEE BROEN OR<br>SIMLAR)        | EXTERIOR HIGH DENETY FIRE CEMENT BOARD ON EASY TRACT TO MATCH<br>( HARDE ON EMLAR) COLON (WHITE BOOS OPERN OF EMLAR) |  |  |  |



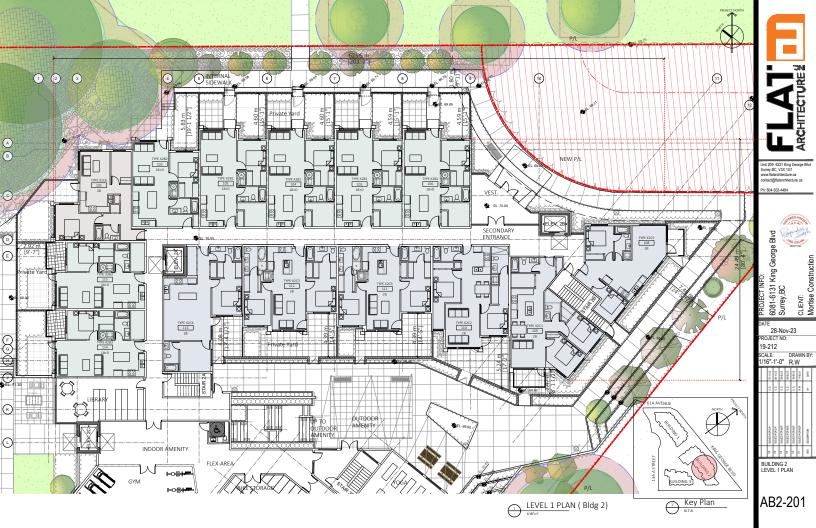


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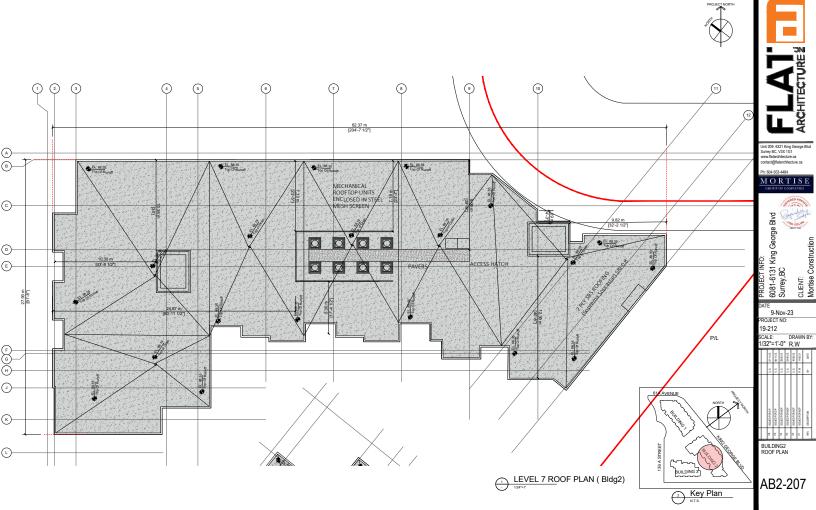
ARCHITECTURE

Uni 209 6321 King George Blud Surrey BC, V3X 101 www.fatarchilecture.ca contact@fatarchilecture.ca Ph: 604-503-4484 MORTISE CARDER OF COMPANIES

BUILDING 1 ELEVATIONS

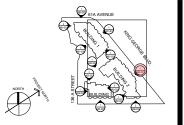








| EXTERCISING DENSITY FIRE CEMINT BOARD ON EASY THINK TO MATCH ( HARDE<br>DRIBBLAR) COLOR ( CRAY OR BINLAR) | INCK CLADDIG (MDRA BRIDDE) COLOR (WHTE CLINER) CHI DRAY MORTAR DR  |  |  |  |
|---|--|--|--|--|
| BETAL FAMIL (ALLCOROND DESIGNAR) COLDE ( DRAF DE SINLAR)  | EXTERIOR HOW DENETY FIRM CEMENT IDANS OW KARY TRANS TO INVICE COLOR<br>BENAMEN MODRE (LEH'T MORE ORIEN OK BANLAR)            |  |  |  |
| EXTERCIPLED DENETY / REFE CEMENT BOARD ON EASY TRUE TO MATCH COLOR     (DARK INCOM CR SMILLAR)            | ALLIN / METAL BOPFIT<br>PRIDE DARK RECTTY PRI PREIN OR BINLAR  |  |  |  |
| EXTERCEN HIGH DENSITY FIRME CEMENT BOARD OW EASY THINS TO MATCH COLOR (MOSS OPEN)<br>ON SIMILAR)          | CALL STATERCH HIGH DEMETY PERFECCIMENT BOARD CITE BARY THEME TO MATCH ( HARDE<br>ON BINLAR), COLON (JULINT BROWN ON BINLAR)  |  |  |  |
| STERIOR HIGH DENSITY FIRMS CENERAL ROARD OW EASY TIMES TO INFOCH COLOR ( MORE GREEN<br>ON SMILLAR)        | CLOR (COPPE BEAN BROWN OR BEALER)  |  |  |  |
| EXTENSION HIGH DENSITY FIRME CEMENT BOARD OW EASY TRANS TO BARTON COLLON. (7AN                            | CONCRETE AND BLARTED FINISH  |  |  |  |
| EXTERIOR HIGH DENSITY FIRE CEMENT BOARD ON EASY TRINS TO MATCH COLOR: (JUSHT GREEN OR SIMLAR)             | COLOR ( GROF OR SMILLIN)   |  |  |  |
| B ALINY INTERNA SIGNAL<br>PINDIN DAPK KNOTTY PINE FINDIN OK BINLAK  | ELACK POWER COATED ALLAMMAN RALINES WITH CLEAK TEMPERED GLASE CELOR TO MATCH<br>( ELACK OR SMEAR)                            |  |  |  |
| DIVERSIA SPOPRATAR HOMALEED ROOF BITH SRIVALE OF 32 OR BELAR  | SCHEROR HIGH DENDETY FIRME CAMERY ROADD CW BARY TRANS TO MATCH HARDE OR<br>BINLARD COLOR. (WHITE OR BINLARD)                 |  |  |  |
| EXTERIOR HEH DENETY FIRE CEMENT BOARD SEING ( HARDE OK SMLAR) COLOR (MLK COPPLE BROWN OK<br>SMLAR)        | CONTROCK HIGH DENSITY FIRME COMMIT BIGARD COVEAULY TRANS TO MATCH<br>( HARDIE OR BINLAR) COLOR (WHITE MODE ORBEIN OR BINLAR) |  |  |  |



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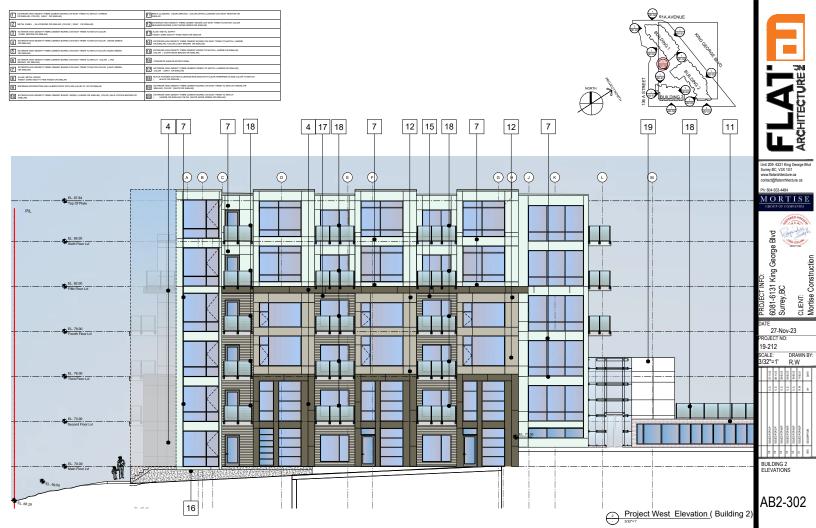
Construction

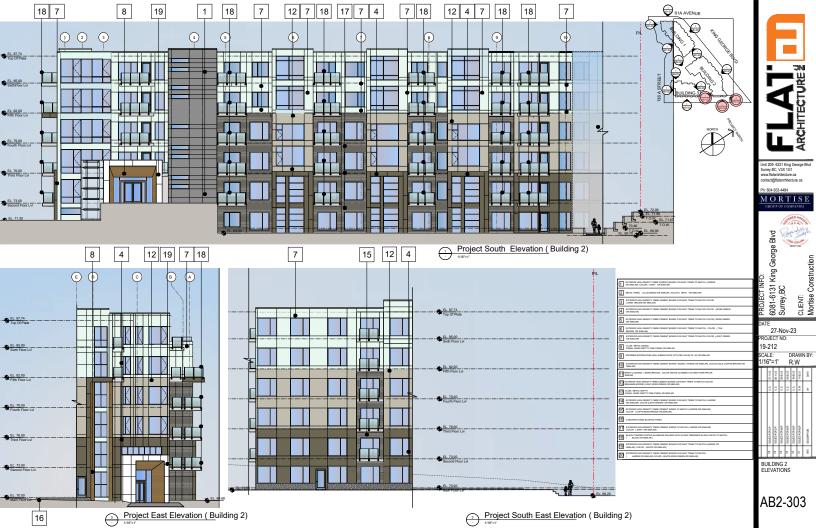
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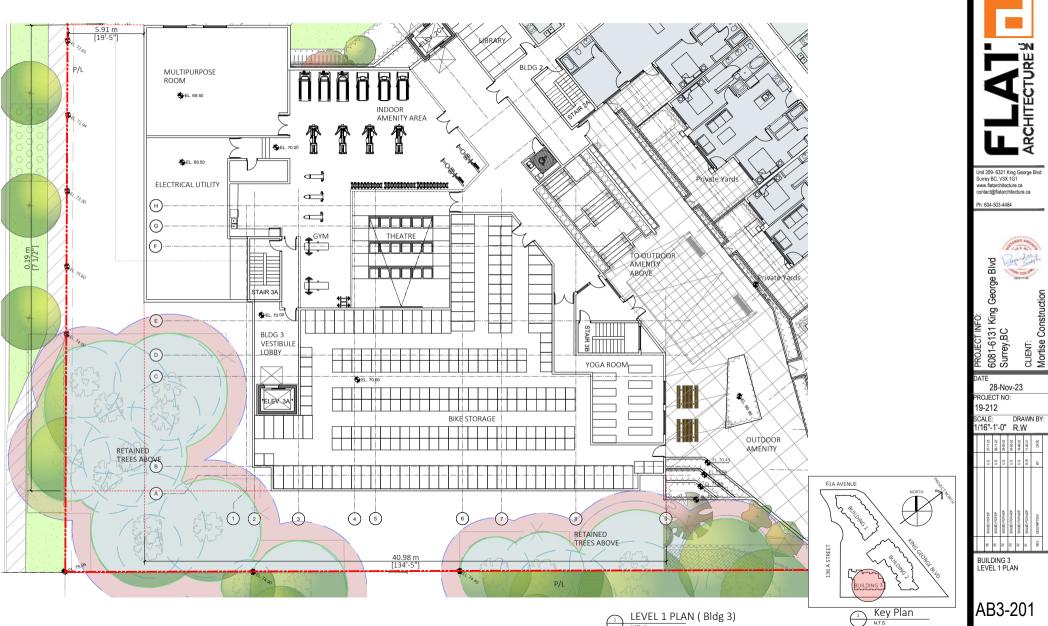
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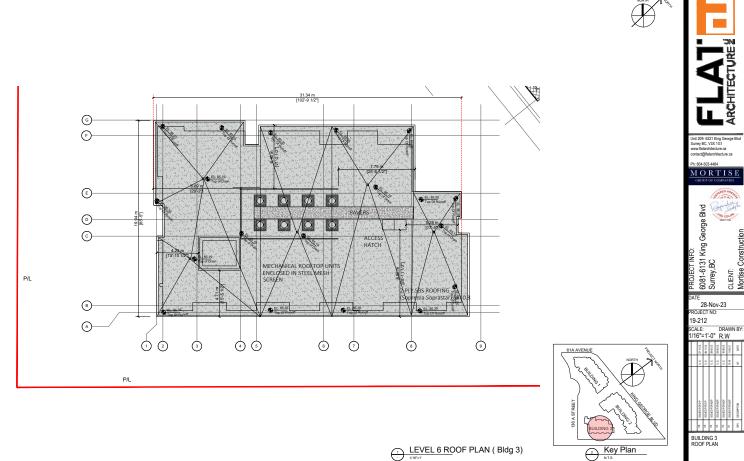






LEVEL 1 PLAN (Bldg 3) (· ) 1/16\*=1



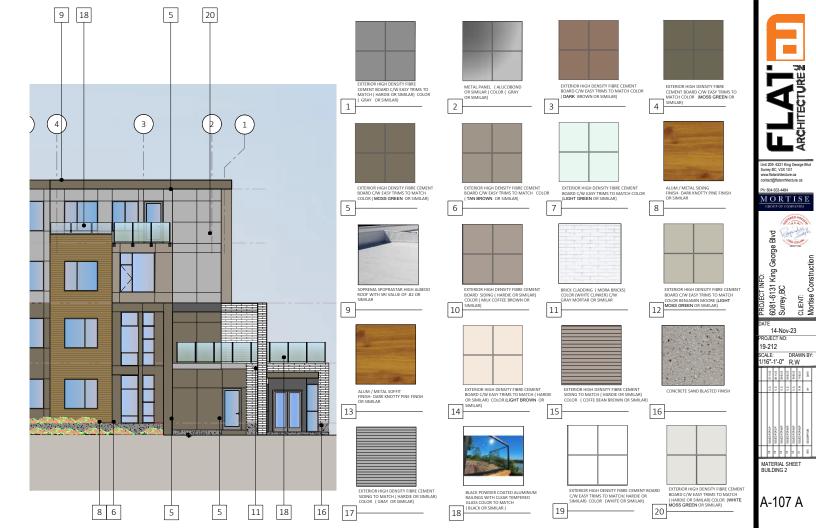


Construction

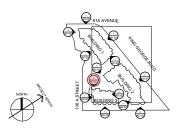
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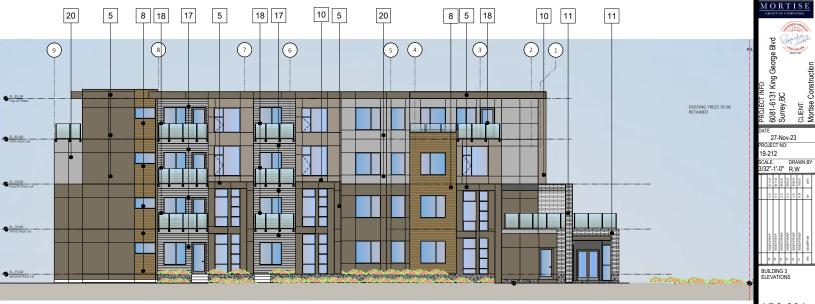
LEVEL 6 ROOF PLAN (Bldg 3)

AB3-206



| INCX-CLADDING ( NORA BRICKE) COLOR (BHTE CLINER) CW ORAT MORTAR OR   |  |  |
|--|--|--|
| EXTERIOR HIGH DENSITY FIRME CEMENT BOARD C/W BABY TREME TO MATCH COLOR<br>BELIAMON MOORE (JUSH' MODEL ORIEN OR BINLAR) |  |  |
| ALLIN I NETAL BOPFIT<br>PRIME DANK KNOTTY PINE PINEH OR BINLAR   |  |  |
| KXTERIOR HIGH DENSITY FIRMS CEMENT BOARD OW EASY TRANS TO MATCH ( HARDE<br>OR SMILAR) COLOR (JUSH' BROWN OR SMILAR)    |  |  |
| EXTERIOR HIGH DENSITY FIRME CENENT SIDING TO MATCH ( HARDE OR SMELAR)<br>COLOR ( COPPE BEAN BROWN OR SMELAR)           |  |  |
| CONCRETE INVO BLARTED FINISH   |  |  |
| EXTERIOR HER DENSITY FREE CEMENT BOND TO MATCH (HARDE OF BINLAR)<br>COLOR ( DRAY OF BINLAR)                            |  |  |
| RACK POINTER CONTROLLIMING RALINGS WITH CLEAR TEMPERED GLASS COLOR TO INFO:  |  |  |
| STERIOR HER DENSITY FIRE CAMPUTE CALL CARD CILLERIY TRUE TO MATCH HARDE CR.<br>SIMLAR, COLOR. (WHTE OR SIMLAR)         |  |  |
| EXTERCENTED DENSITY FERE CEMENT BOARD ON EASY TRUE TO MATCH     HARDE OF SIMULAR, COLOR, (INHTE MOSE GREEN OR SIMULAR) |  |  |
|  |  |  |



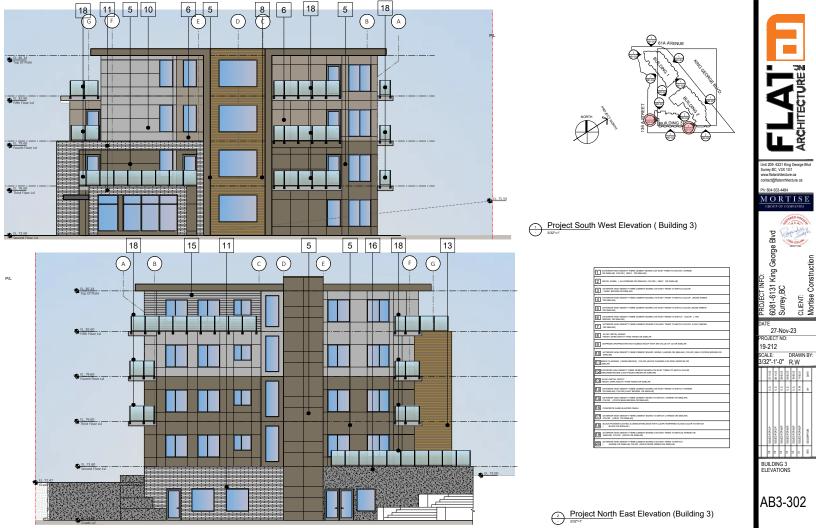


Project North West Elevation (Building 3)

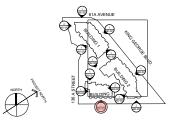
### AB3-301

Unit 209- 6321 King George Blvd Surrey BC, V3X 1G1 www.flatarchitecture.ca contact@flatarchitecture.ca Ph: 604-503-4484

Construction



| EXTERIOR HEN DENETY FIRE CAMENT BOARD ON BARY TREE TO MATCH (HARDE<br>OR BINLAR) COLOR( GRAY OR BINLAR) | BROX CLADDING (MORABROGE) COLOR (WHTE CLINER) CRI GRAV MORTRE OR<br>BINLAR   |  |  |
|---|--|--|--|
| SINTAL PANEL (ALUCOBOND OR BINLAR) COLOR ( DRAY OR BINLAR)  | 22 EXTERIOR HIGH DENSITY FIBRE CEMENT BOARD OV EASY TRANS TO MATCH COLOR<br>BELLARIN MOORE (LEHT MORE ORIEN OR EMLAR)      |  |  |
| EXTERIOR HER DENETY FIRE CEMENT BOARD ON EASY TRINS TO MATCH COLOR     (DARK BROWN OR EMILAR)           | SILM/METRI SOPPT<br>PREH DARK KRITTY PRE PREH CK SMLAR   |  |  |
| STERIOR HIGH GENERTY FERE CEMENT BOARD CW EARY TRUE TO MATCH COLOR (BIOLES GREEN<br>OF SIMILAR)         | EASTERIOR HOR CENERTY FREE CAMENT BOARD CHI LARY TREE TO MATCH ( HARCEE CHI.SHELAR) COLOR (LIGHT BROWN OK EMLAR)           |  |  |
| EXTERIOR HIGH DENSITY FERE CEMENT BOARD CW EASY TRMS TO MATCH COLOR (MOSE GREEN<br>OR IMPLAY)           | COLOR ( COPPE BEAN ENCIRIN OF BEALAN)  |  |  |
| EXTERIOR HIGH DENSITY FIRE CEMENT BOARD OW EASY TRMS TO MATCH COLOR. (TAN<br>BROWN OF EMPLAN)           | CONCRETE SAND BLATED FINISH  |  |  |
| EXTERIOR HIGH DENSITY FIRE CEMENT BOARD OW EASY TREES TO MATCH COLOR (JUSHT GREEN<br>OR BINLIN)         | EXTERIOR HIGH DENSITY HIRRS CAMENT BOING TO MATCH (HARDE OR BMLAR)<br>COLOR (GRAY OR BMLAR)                                |  |  |
| ALLM / METAL BEOND<br>PRESH DARK HEATTY PRIE PRESH OR BINLAR  | BLACK POWSER COATED ALLMING RALINGS WITH CLEAR TEMPERED GLASS COLOR TO MATCH     BLACK OR BINLAR                           |  |  |
| BOPPENA BPOPPARTAR HICH ALBEDO ROOF WITH SRI VALUE OF 20 CR SIMLAR                                      | EXTERIOR HIGH DENSITY FIRME CAMENT BLAND CW BARY TRIMS TO MATCH, HARDE OR<br>BINLARI, COLOR. (MINTE OR BINLARI)            |  |  |
| EXTERIOR HIGH DENETT FERE CEMENT BOARD SEDING ( HARDE OK SIMLAR) COLOR ( MLK COFFEE BROWN OK SIMLAR)    | EXTERIOR HIGH DENETY FIRME CAMENT BOARD CW BASY TRIAS TO MATCH<br>( HARDIE CR SIMELAR) COLCR (WHITE BODS ORIEN CR SIMELAR) |  |  |

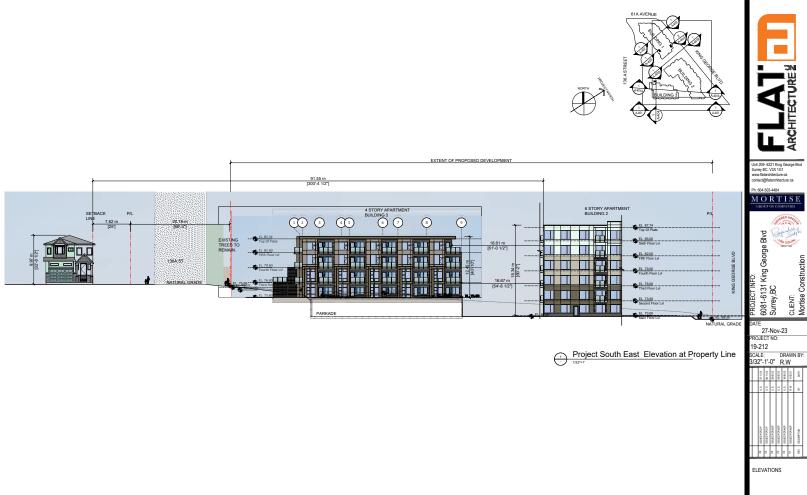


ARCHITECTURE

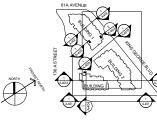
Uhit 209-6321 King George Bivd Surrey BC, V3X 1G1 www.fatarchitecture.ca contact@fatarchitecture.ca Ph: 604-503-484 MORTISE

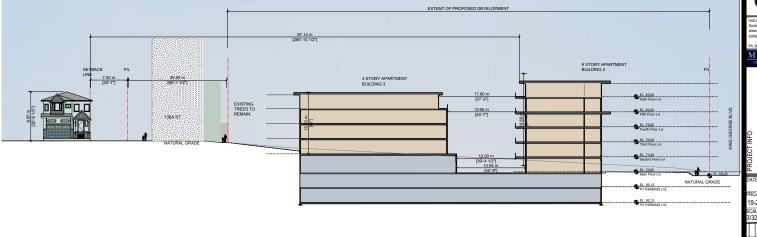


Project South East Elevation (Building 3)

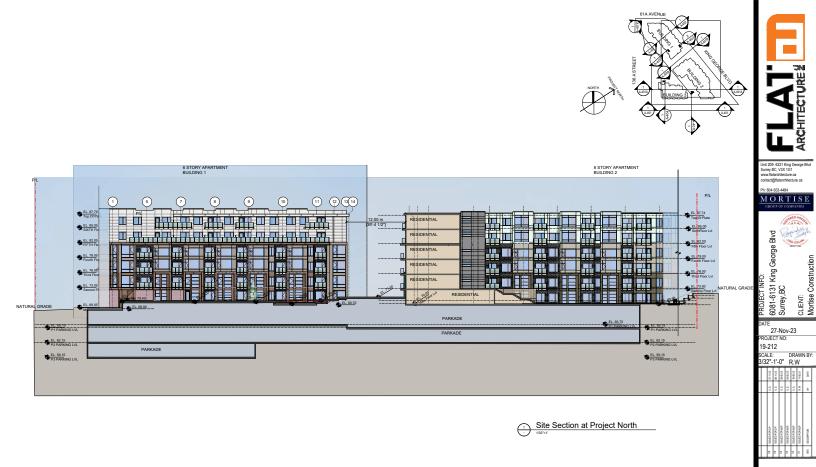








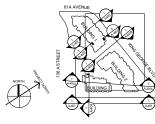
Site Section at Project South East at Property Line



SECTION

A-401C

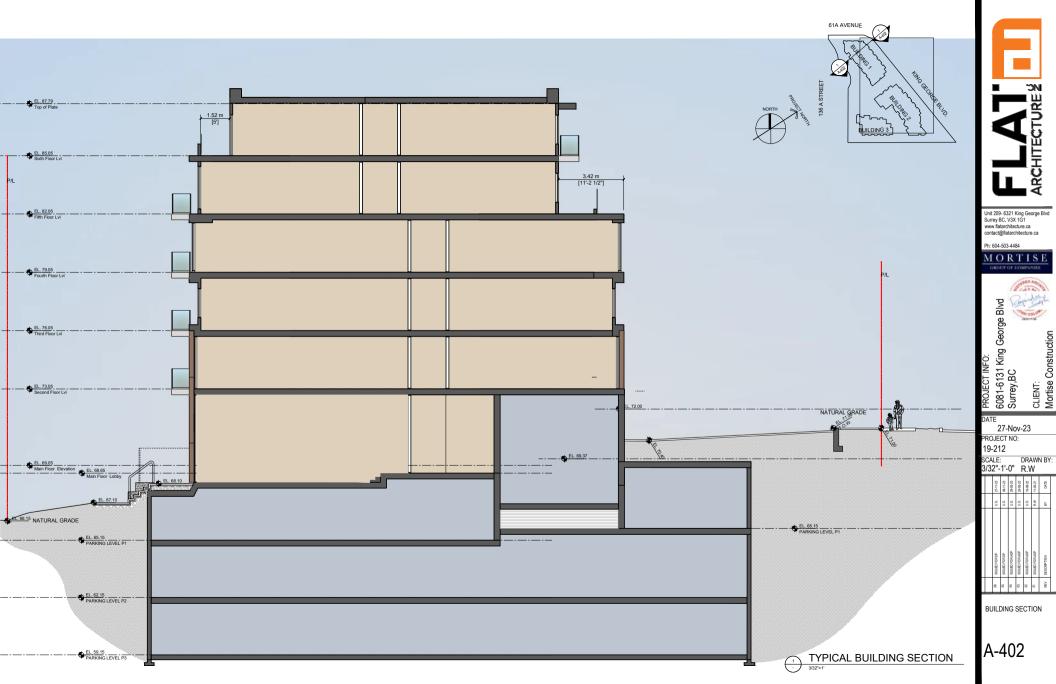


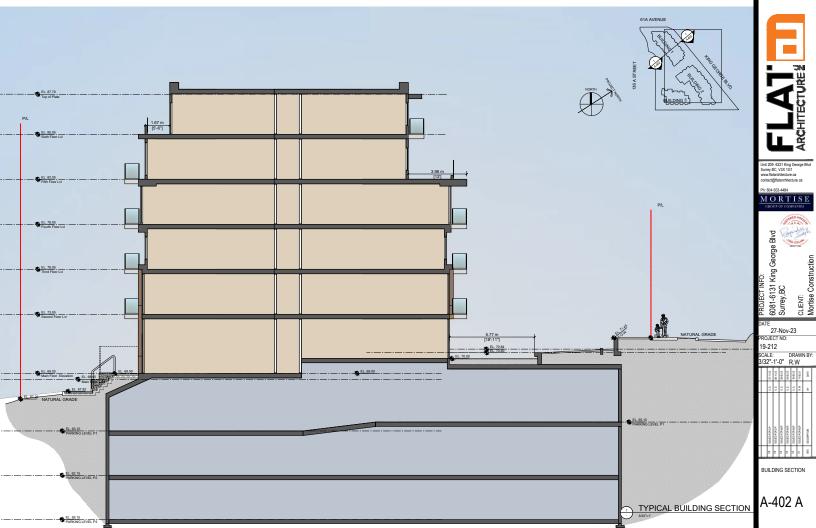




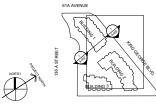
Site Sectional Elevation Project West (Along Building 3)

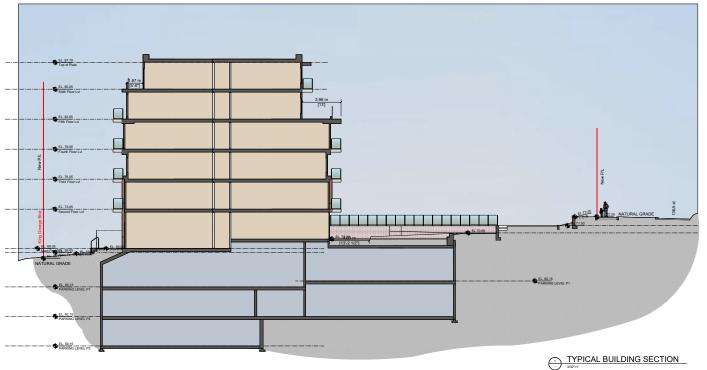
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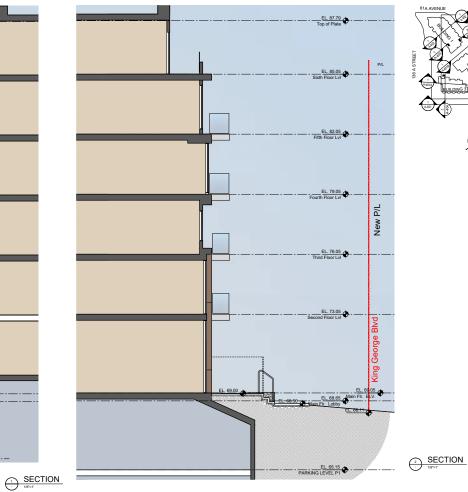


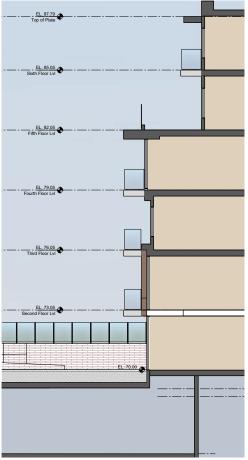


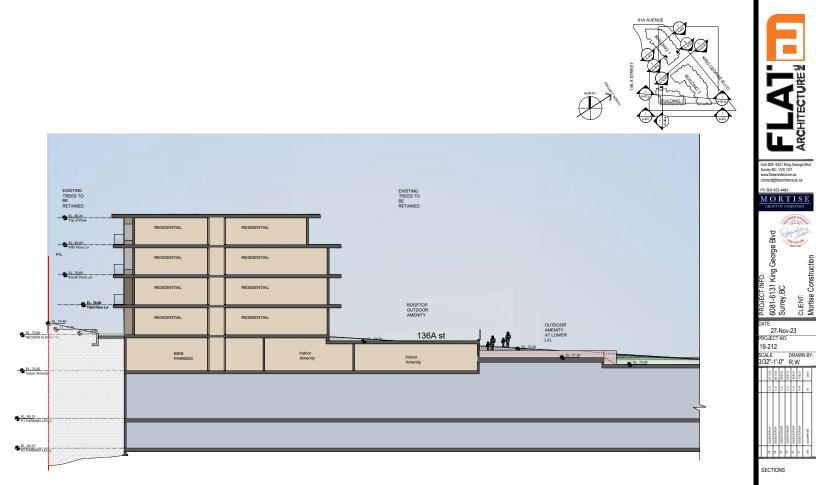


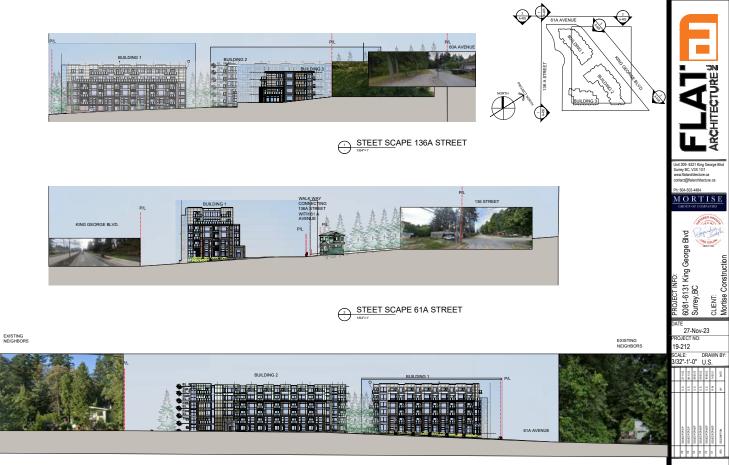








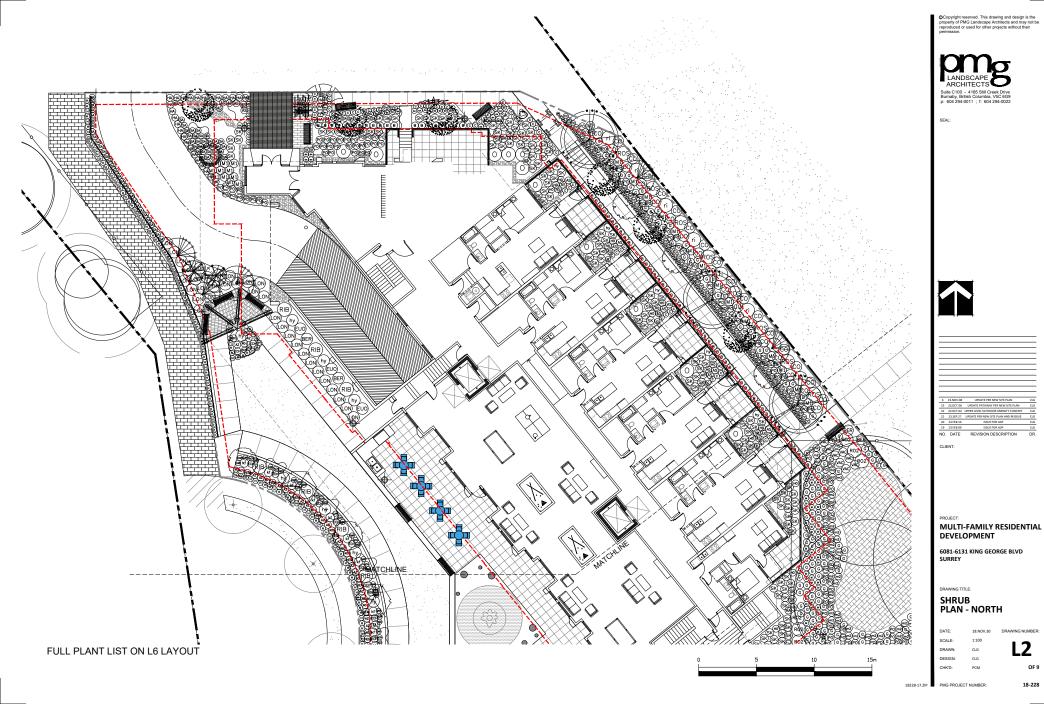


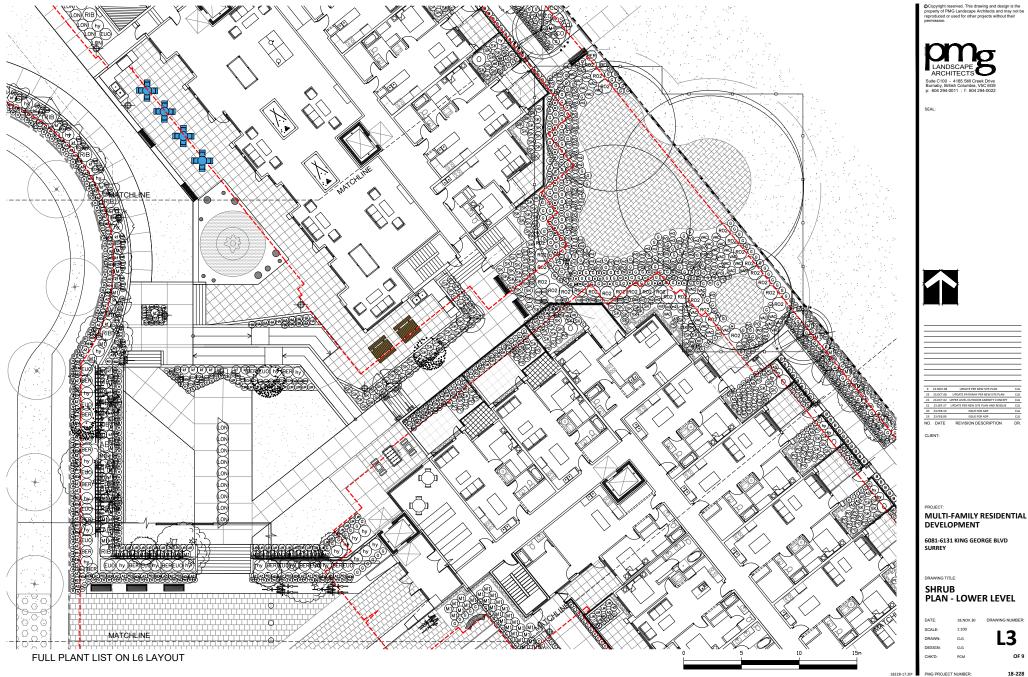


STREET SCAPE









PMG PROJECT NUMBER 18-228

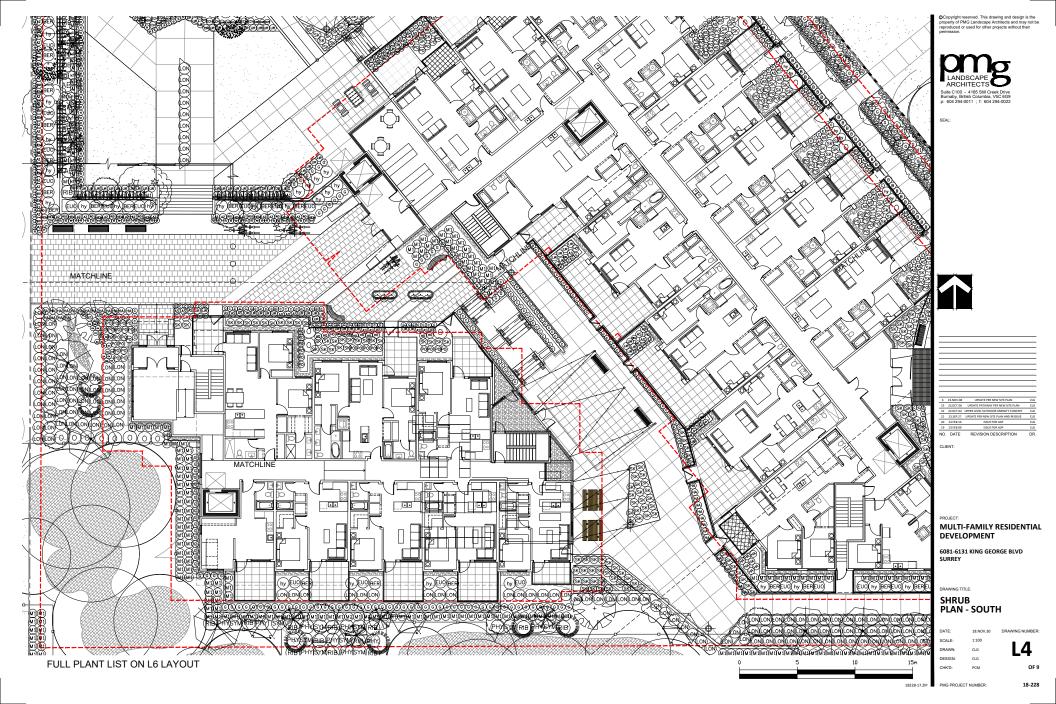
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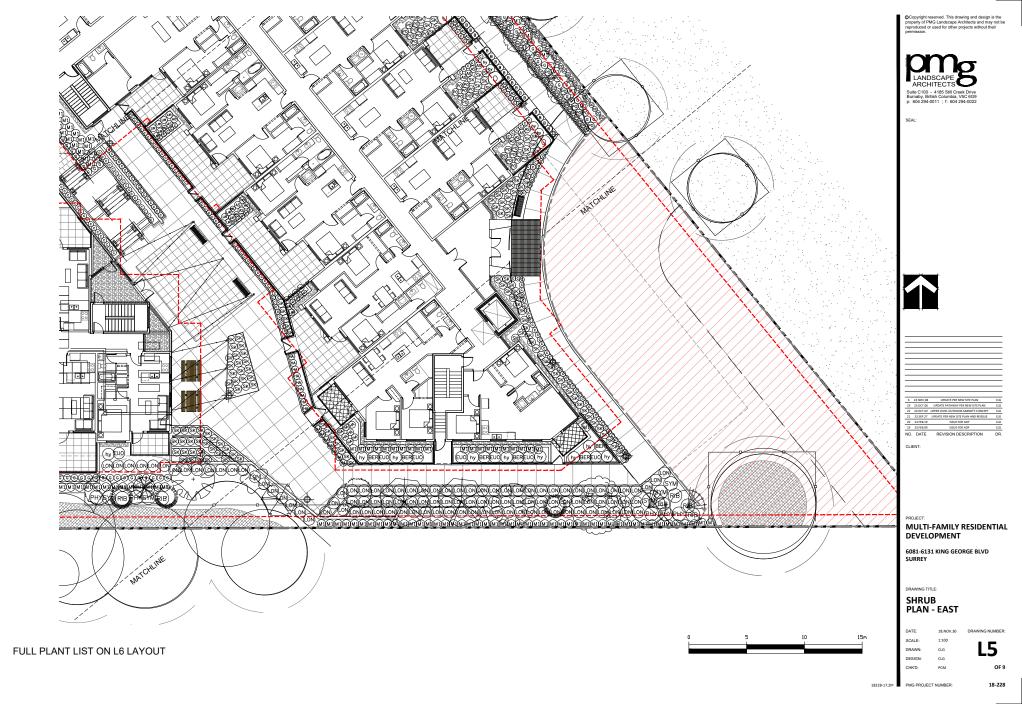
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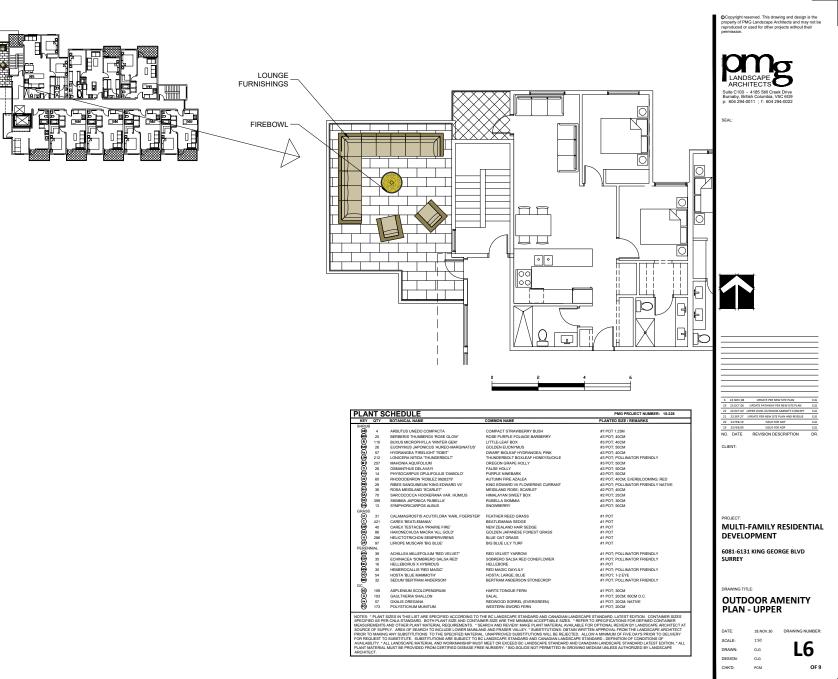
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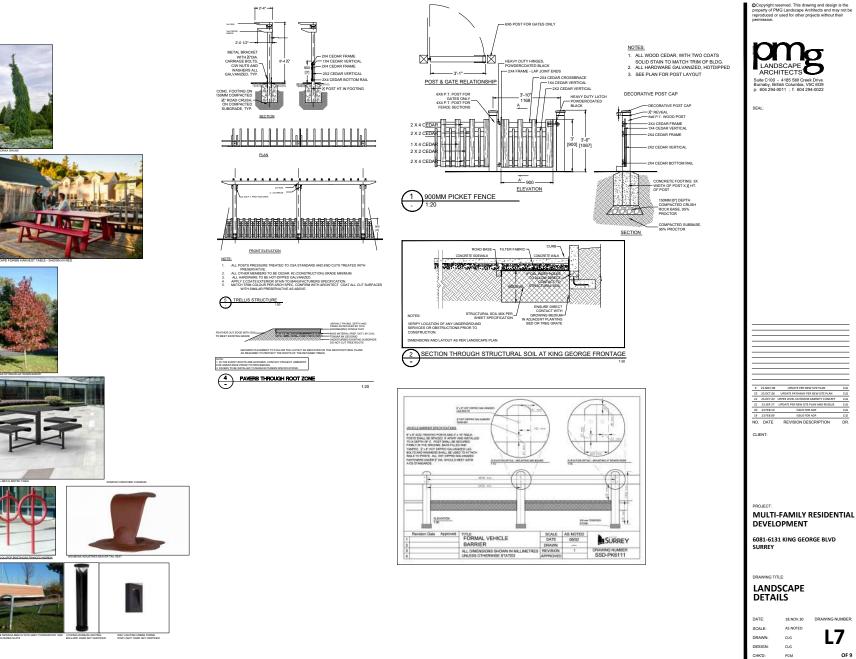






18228-17.2IP PMG PROJECT NUMBER:

18-228











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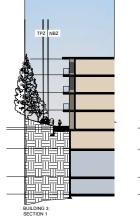
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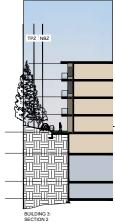
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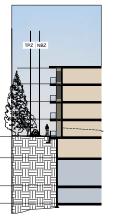
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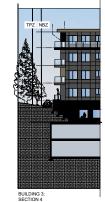
ISSUE FOR ADP

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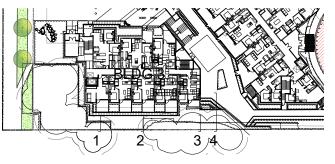


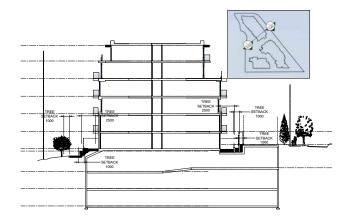


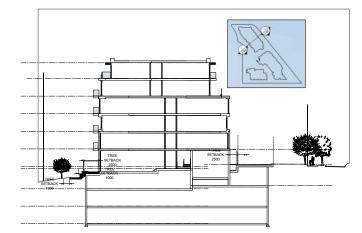


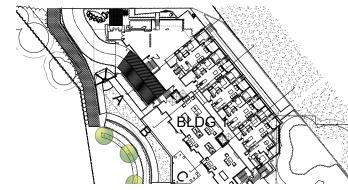














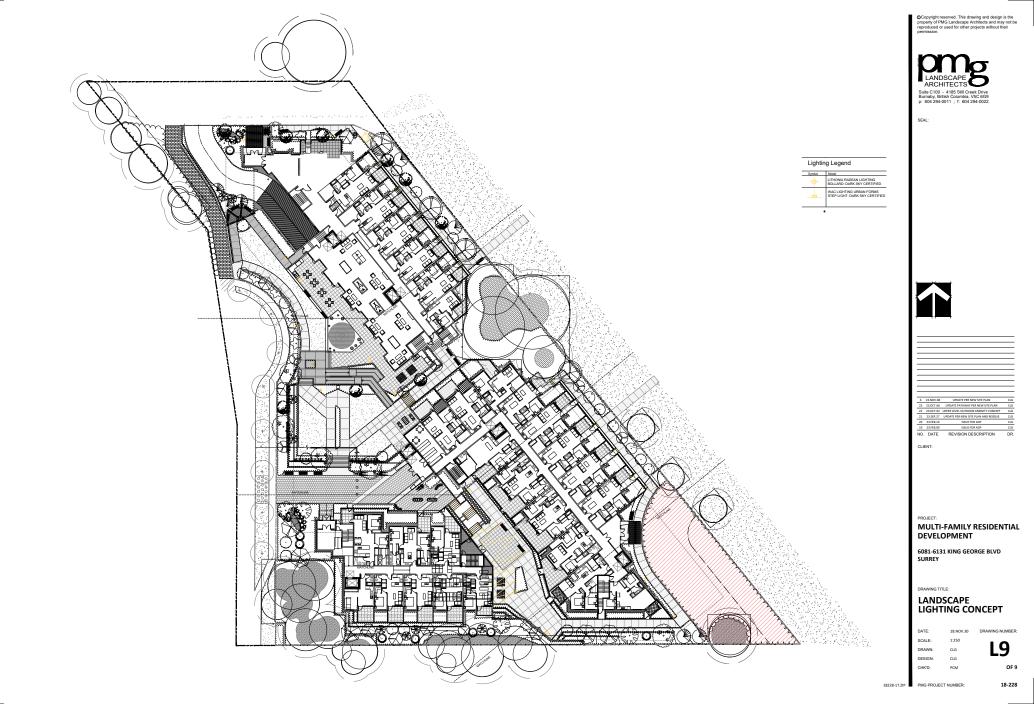
PROJECT: MULTI-FAMILY RESIDENTIAL DEVELOPMENT 6081-6131 KING GEORGE BLVD SURREY

LANDSCAPE SECTION

14

18228-17.Z







| TO:   | Director, Area Planning & Development<br>- South Surrey Division<br>Planning and Development Department |               |              |  |  |
|-------|---|---------------|--------------|--|--|
| FROM: | Development Services Manager, Engineering Department  |               |              |  |  |
| DATE: | September 21, 2023  | PROJECT FILE: | 7818-0111-00 |  |  |
| RE:   | Engineering Requirements  |               |              |  |  |

# Location: 6081/6095/6111/6121/6131 King George Boulevard

## **OCP AMENDMENT**

There are no engineering requirements relative to the OCP Amendment.

## **DEVELOPMENT PERMIT**

Register applicable legal documents to address environmental setbacks as condition of Sensitive Ecosystem Development Permit.

# **REZONE/SUBDIVISION**

## Property and Statutory Right-of-Way (SRW) Requirements

- Dedicate 8.5 metres for 136A Street with cul-de-sac, and 0.5 metre SRW.
- Dedicate 11.5 metres for 61A Avenue with 0.5 metre SRW along property line.
- Dedicate varying width of walkway north of 136A Street.
- Register 0.5 metre SRW along King George Boulevard.

## Works and Services

- Construct sidewalk along King George Boulevard.
- Construct 61A Avenue and 136A Street.
- Construct walkway.
- Construct storm sewer on 61A Avenue and King George Boulevard
- Provide onsite sustainable drainage features
- Construct water main on King George Boulevard and 61A Avenue
- Extend sanitary sewer from King George Boulevard along 61A Avenue to 136A Street
- Install water, sanitary and drainage service connections

A Servicing Agreement is required prior to Rezone/Subdivision.

Ally lang

Jeff Pang, P.Eng. Development Services Manager KMH

NOTE: Detailed Land Development Engineering Review available on file



| Department: | <b>Planning and Demographics</b> |
|-------------|----------------------------------|
| Date:       | November 22, 2023                |
| Report For: | City of Surrey                   |

#### **Development Impact Analysis on Schools For:**

Application #:

The proposed development of 198 Low Rise Apartment units are estimated to have the following impact on elementary and secondary schools within the school regions.

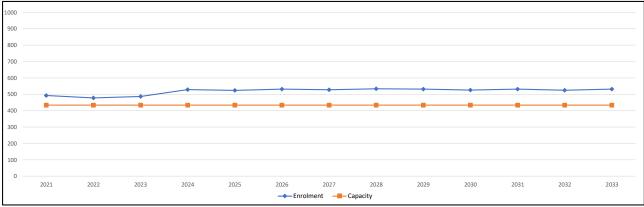
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| within the school regions.                             |      | The following tables illustrate the historical, current and future enrolment projections   |
|--|------|--|
|  |      | including current/approved ministry operating capacity for the elementary and secondary  |
|  |      | schools serving the proposed development.  |
| School-aged children population projection             | 26   |  |
|  |      | North Ridge Elementary is currently operating above 100% capacity and is projected to grow due to  |
|  |      | the catchment continuing to densify with more townhome applications. Though no capital projects  |
|  |      | have been requested for this school, this catchment will be monitored over the next year to further  |
| Projected Number of Students From This Development In: |      | understand the developing growth trend. Until there is a Ministry approved capital project, the<br>school will manage growth with portables on site. |
| Elementary School =                                    | 16   | school will manage growth with portables on site.  |
| Secondary School =                                     | 10   | A 400 capacity addition was completed at Panorama Ridge Secondary in May 2014. The school offers   |
| Total Students =                                       | 22   | both regular stream and French immersion. The school is currently operating at 112% capacity along   |
|  | 22   | with portables. The enrolment growth seems to be levelling off. Current and future enrolment   |
| Current Enrolment and Capacities:                      |      | demand can be accommodated by the school's existing capacity with portables. There are no current  |
|  |      | plans to expand this school; but the facility will be monitored over the next several years to oversee   |
| North Ridge Elementary                                 |      | any dramatic fluctuations in the rate of growth.   |
| Enrolment  | 487  |  |
| Operating Capacity                                     | 434  |  |
| # of Portables   | 4    |  |
|  |      |  |
|  |      |  |
| Panorama Ridge Secondary                               |      |  |
| Enrolment  | 1565 |  |
| Operating Capacity                                     | 1400 |  |
| # of Portables   | 2    |  |

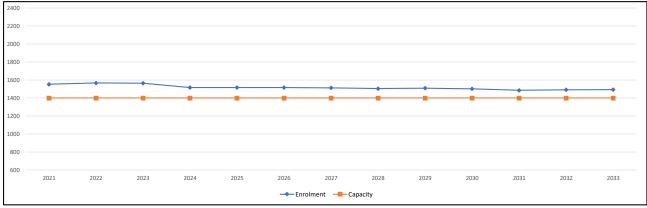
Summary of Impact and Commentary

#### North Ridge Elementary

Panorama Ridge Secondary



Note: If this report is provided in the months of October, November and December, the 10-year projections are out of date and they will be updated in January of next year.



Note: If this report is provided in the months of October, November and December, the 10-year projections are out of date and they will be updated in January of next year.

**Population** : The projected population of children aged 0-17 impacted by the development. **Enrolment:** The number of students projected to attend the Surrey School District ONLY. Arborist Report – 6131, 6121, 6111, 6095, 6081 King George Blvd, Surrey, BC

#### Table 3. Tree Preservation Summary

| TREE PRESERVATION SUMMARY   |                 |
|---|-----------------|
| Surrey Project No:UnknownAddress:6131, 6121, 6111, 6095, 6081 King George Blvd, SRegistered Arborist:Max Rathburn   | urrey, BC       |
| On-Site Trees   | Number of Trees |
| <b>Protected Trees Identified</b><br>(on-site and shared trees, including trees within boulevards and proposed<br>streets and lanes, but excluding trees in proposed open space or riparian<br>areas)   | 88              |
| Protected Trees to be Removed   | 64              |
| <b>Protected Trees to be Retained</b><br>(excluding trees within proposed open space or riparian areas)   | 24              |
| Total Replacement Trees Required:         - Alder & Cottonwood Trees Requiring 1 to 1 Replacement Ratio         2       X       one (1)       =       2         - All other Trees Requiring 2 to 1 Replacement Ratio         62       X       two (2)       =       122 | 126             |
| Replacement Trees Proposed  | 70              |
| Replacement Trees in Deficit  | 56              |
| Protected Trees to be Retained in Proposed [Open Space / Riparian Areas]  | 0               |
| Off-Site Trees  | Number of Trees |
| Protected Off-Site Trees to be Removed  | 2               |
| Total Replacement Trees Required:         - Alder & Cottonwood Trees Requiring 1 to 1 Replacement Ratio         0       X       one (1)       =       0         - All other Trees Requiring 2 to 1 Replacement Ratio         2       X       two (2)       =       4    | 4               |
| Replacement Trees Proposed  | 0               |
| Replacement Trees in Deficit  | 4               |

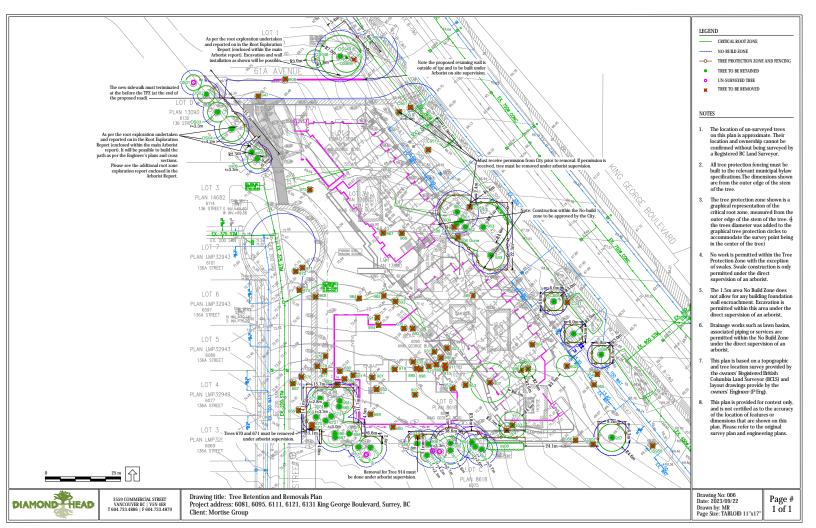
Summary prepared and submitted by:

Montathtoor

2023/11/22

Arborist

Date



## Newton-King George Boulevard | Plan Summary

#### LAND USE STRATEGY

The Plan recognizes King George Boulevard as an important commercial and transportation corridor. The majority of commercial and residential redevelopment is concentrated along King George Boulevard nearest to future rapid transit stops.

The Plan's land use strategy assigns land use designations to outline general development expectations and parameters. Development is expected to occur in accordance with these designations through the implementation of applicable zoning and development permit application processes.

New and existing roads are shown in white. Future long Term Roads are shown with a dashed line.

#### LEGEND

 Low-Rise Mixed-Use
 Low-Rise Mixed-Use Cluster
 Commercial
 Low-Rise Residential
 Townhouse
 Low Density Residential
 Parks & Open Space
 School
 Riparian Area Refer to Section 6.3
 Detention Pond
 RapidBus

Proposed Route and Stops





Advisory Design Panel Minutes

#### Present:

<u>Panel Members</u>: E. Kearns, Chair M. Cheung M. Mitchell R. Salcido Rajinder Warraich, Architect AIBC, Flat Architecture Caelan L. Griffiths, PMG Landscape Architects Ruchir Dhall, Landscape Architect, Architecture Panel Inc. Martin Liew, Architect AIBC, Martin Liew Architecture Inc.

#### **Staff Present:**

A. McLean, City Architect N. Chow, Urban Design Planner S. Maleknia, Senior Urban Design Planner S. Meng, Administrative Assistant

#### A. RECEIPT OF MINUTES

**Guests:** 

It was

Moved by M. Cheung Seconded by M. Mitchell That the minutes of the Advisory Design Panel

meeting of May 25, 2023 be received.

<u>Carried</u>

#### **B. NEW SUBMISSIONS**

1. 3:05 p.m.

| File No.:<br>New or Resubmit:<br>Last Submission Date:<br>Description:                            | 7918-0111-00<br>New<br>N/A<br>OCP Amendment from Urban to Multiple Residential,<br>Rezoning from RF to CD (based on RM-70), and Form and<br>Character Development Permit for 3 apartment buildings with   |
|---|---|
| Address:<br>Developer:<br>Architect:<br>Landscape Architect:<br>Planner:<br>Urban Design Planner: | a total of 218 units, and 2.0 FAR, and consolidation of 5 lots.<br>6081, 6095, 6111, 6121, and 6131 King George Boulevard<br>Travjit Johal, Mortise Construction Ltd.<br>Rajinder Warraich, Architect AIBC, Flat Architecture<br>Caelan L. Griffiths, PMG Landscape Architects<br>Heather Kamitakahara<br>Nathan Chow |

The Urban Design Planner advised that staff generally support the use and density of the project, but noted concerns with massing, building interface and buffering at the west side.

The Panel was asked to comment on the overall site planning, pedestrian and vehicular movement, form and overall massing concept, proposed setbacks, proposed amenity concept, wayfinding, overall landscape concept, and public realm interfaces.

The Project Architect presented an overview of the site planning, streetscapes, building concept, and 3D Views.

The Landscape Architect presented an overview of the general concept for the Landscape design.

## ADVISORY DESIGN PANEL STATEMENT OF REVIEW

It was

Moved by R. Salcido Seconded by M. Cheung That the Advisory Design Panel (ADP) is in CONDITIONAL support of the project and recommends that the applicant address the following issues to the satisfaction of the Planning & Development Department and, at the discretion of Planning staff, resubmit the project to the ADP for review. Carried

**Key Points** 

Consider more grading information on architectural and landscape plans to fully understand grading conditions of the site.

We have added more spot levels in drawing to show the grading and understand the terrain as part of the larger urban fabric. [U.S.]

We have added the grading information from the architectural base plans in order to fully communicate our understanding of the grading conditions of the site. [LANDSCAPE]

Consider softening the elevation on King George Boulevard to reduce the overall bulkiness.

We have reduced the bulkiness of the building elevation by breaking it horizontally and in away compartmentalized vertically through form and material so as to fit in to the current urban context. [U.S.]

Consider revisiting the screening and buffering from an architecture and landscape perspective, such as spaces that interface the cul-de-sac and singlefamily lots.

The landscape and architectural package have catered to the screening request by providing adequate height ted plant for detail, pls. refer architectural package [U.S.]

We have worked together with our architect to provide a wider mixed border of landscape and trees to create a layered approach to buffering the cul-de-sac and single-family lots. These include 1.0m tall perennials and shrubs as well as trees with canopies starting at 2.0m high. No walls are now proposed in the first 2.5m horizontally measured from the property line inward to the site. [LANDSCAPE]

• Reconsider sunken patios to increase livability.

The design has been modified to incorporate indoor amenity in the sunken units and enlarge the patio. to connect with outdoor amenity. As a larger discussion of sunken, the urban terrain and the urban fabric complement each other and when looking morphology of the proposal the built and the unbuilt has been massed to respond to each other, in a manner that maximum 6 story form with adequate separation, interacts with each other. [U.S.]

Only where the patios are in potential conflict with the neighbouring single family lots are they graded below adjacent to provide more privacy across the property line. [LANDSCAPE]

Consider the privacy and overlook concerns for Building 1, 2, and 3.

The design has been modified to incorporate the adequate building separation, in accordance with the city guidelines. [U.S.]

We have added as many robust urban tree species, and a mix of conifers and deciduous, to better buffer the building from the adjacent neighbourhood and provide a gradual interface between existing and proposed urban form. [LANDSCAPE]

- Consider more breathing room between buildings to improve the resident experience. The design has been modified to incorporate the adequate building separation, in accordance with the city guidelines. [U.S.]
- Consider more natural light in the indoor amenity areas.

The design has been modified to add indoor light in all amenity spaces. By breaking the outdoor amenity at different levels, it exposes the side of the amenity, the glazing allows natural light [U.S.]

We have provided additional natural light to the indoor amenity spaces – this is achieved by providing deciduous trees that shade in the summer and allow ambient low-sun-angle light in the winter. [LANDSCAPE]

• Consider using the rooftop for additional amenity area.

Roof top terraces have not been added as amenity spaces. As these are wood buildings. We won't be able to support a variety of programs. hence all amenity has been restricted at grade level. [U.S.]

This possibility is in consideration, however ample at-grade outdoor amenity is provided. [LANDSCAPE]

• Consider providing adaptable units.

In accordance to with the new building code being adopted in December 2023. the design will comply in full, with regards to the adaptable and accessibility clauses. This issue will be addressed in complete at Building Permit stage. [U.S.]

#### Site

• Reconsider the main entry location at 61A Avenue due to the narrow street. The building entry requires some space on the street frontage for people to drop off and enter building.

Taken under due consideration. We have retained the entrance as the road will broaden as, the NCP is implemented in due course of time. [U.S.]

• Consider reviewing the double parallel fire access which sacrifices the public realm interface to the street, especially to the single house neighbourhood opposite of 136A Street.

The new site plan has been revised to incorporate the fire access from 136A street. [U.S.]

• Consider reviewing the turning radius and maneuvering coming in and out of the street and the entry/exit of parkade with a traffic consultant.

Taken under due consideration. We have retained the parkade entrance, as it is the most conducive location. [U.S.]

• Reconsider the distance between Building 2 and 3, as the separation is too close with huge privacy overlook issues.

The design has been modified to incorporate the adequate building separation, in accordance with the city guidelines. Furthermore, the upper level of the building 3 interfacing building 2 has been stepped back. [U.S.]

• Consider reviewing the privacy matters between Building 1 and 2 and providing means to avoid visibility conflicts between opposite units.

The design has been modified to incorporate the adequate building separation, in accordance with the city guidelines. [U.S.]

• Consider consolidating some of the outdoor amenity to create better nodes for people to have social opportunities and congregate.

Outdoor amenity has been consolidated and links the meandering spaces between the three buildings, acting as a confluence of open spaces. [U.S.]

• Consider rotating or relocating the ramp as its direction seems to contribute to breaking up the amenity space.

Taken into active consideration and the design has been revised. The ramps have been relocated and provide a better connection between

## different outdoor amenities. [U.S.]

Consider having family-oriented units and/or adaptable units.

In accordance to with the new building code being adopted in December 2023. the design will comply in full, with regards to the adaptable and accessibility clauses. We are providing 10 units as adaptable units. [U.S.]

### Form and Character

• Consider reviewing the massing at all four frontages, as the frontage facing King George Boulevard is huge and bulky.

The massing and form have been revised to incorporate the suggestion, the mass has been broken vertically and horizontally and the material highlighted the massing transition. [U.S.]

• Reconsider the articulation and massing. Use rigor, regularity, and simplification to allow the design intent to stay.

The massing and form have been revised to incorporate the suggestion. The building remains monochromatic around two storey base and grades as we move up vertically. [U.S.]

• Reconsider the south and west elevations on Building 1, levels 5 and 6, using additional articulation to break up the massing.

The massing and form have been revised to incorporate the suggestion, by adding notches to the roof and breaking the mass both vertically and horizontally as the building steps back. [U.S.]

• Consider wrapping around or breaking up level 6. The facade stops over the course of level 6 to break up massing.

The massing and form have been revised to incorporate the suggestion, by breaking the mass vertically and horizontally by stepping the mass back and adding notches to the façade. [U.S.]

• Consider some simplification and having the highlight colours at the corner or just at the townhouse expression on level 1 and 2, to help accentuate the colour more.

The massing and form have been revised to incorporate the suggestion; we have made the façade monochromatic. [U.S.]

• Consider reviewing the representation of the elevations, since the high sloped roof on Building 3 shows a very large window but the plan shows a solid wall of stair enclosure.

The massing and form have been revised to incorporate the suggestion, we have removed the roof and simplified the elevation to reflect a more neighbourhood friendly design. [U.S.]

• Consider reviewing the west frontage facing the 136A Street cul-de-sac that show sunken elements.

The massing and form have been revised to incorporate the suggestion, we have increased the height of building 1, redesigned the Building2 and provided a stepped sequential public realm that is more conducive to the neighbourhood context. [U.S.]

Landscape

• Recommend reviewing additional tree planting on King George Boulevard as there are no trees in yard spaces. Highly recommend reviewing both plant material species and adding additional trees in that location.

We have planted a robust and continuous tree buffer along King George Boulevard, off-slab and away from the 2.5m tree setback that is enforced by the City of Surrey. In this configuration there are a minimum of one tree in immediate adjacency to each unit. [LANDSCAPE]

• Recommend patios have vegetative buffers.

All patios are buffered to the adjacent streets or shared walkways with hedges or other landscape planting. The exception is the outdoor amenity patio which is not buffered to promote pro-social interactions between the passers-by and the patio users. [LANDSCAPE]

• Consider reviewing the yard landscape plant material species to provide screening between units or street; in particular on the southside, between the walkway and neighbouring single-family properties.

# We have provided stepped landscape buffering with broadleaved evergreens and trees along the south PL. [LANDSCAPE]

Further consider the buffering between the cul-de-sac and sidewalk since screening seems limited there with 4 sunken units with small patio spaces that have no privacy.

## We have worked with the project architect to provide a common outdoor space, with the landscape buffer directly toward the street. [LANDSCAPE]

• Consider programming the hard surface area at the fire truck hammerhead location with additional programming or speciality paving to make it more functional for the overall courtyard space.

We have worked with our architect to change the location of the fire lane and integrate the necessary hardscape of the lane into a more polyvalent plaza space that complements the entry sequence to both buildings 2 &3. [LANDSCAPE]

• Highly recommend reviewing the sunken amenity area between Building 3 and 2 for additional programming.

Pls. refer the Landscape package. A dance floor has been provided in amenity 5 [U.S.]

We have added overhead lighting, seating and supporting indoor amenities that will enliven this area. As well as expanded softscape to cut the sound reflectivity of surfaces. [LANDSCAPE]

• Consider providing programming connection between outdoor courtyard and indoor amenity areas next to the bike parking. This is a very hard interface between the building 3 outdoor courtyard and indoor amenity area.

Pls. refer the Landscape package. A dance floor has been provided in amenity 5 [U.S.]

The additional lighting and seating in this area as well as supporting indoor program will help soften the connection between amenities. [LANDSCAPE]

 Recommend potential stormwater management on site using rain gardens or bioswales.

We have added softscape along the lowest area of the site – south PL – and we will be coordinating with the project civil engineer to see if a bioswale can be instituted along this area. This is the project's most viable candidate area for low impact design. [LANDSCAPE]

• Consider reviewing the tree protection zone with arborist as there are a few areas of encroachment with patios and building corners.

No foundation and construction are encroaching the TPZ except for the balconies. While any activity evolving the TPZ. including putting hardscape, landscape or pavements. Will be conducted under the supervision of the Arborist. [U.S.]

We have been in close coordination with the project arborist to confirm the impact on tree protection zones will be acceptable. [LANDSCAPE]

• Recommend providing more information on grading and soil volumes in the landscape plan.

As we resolve the plan layout, we will be coordinating the slab and planter grades to ensure all trees are provided the required 10m3 of growing medium. [LANDSCAPE]

• Consider ensuring enough soil depth on slab for trees.

The required 2.5m and 1.0m setback from building face and property lines – respectively – have ensured that trees are proposed in planter beds that have greater depth-to-slab than those closer to the building upstand. [LANDSCAPE]

• Recommend reviewing bike parking for outdoor areas including potential for electric bike parking.

We have located bike parking close to building entries and will be working with the project electrical engineer to provide connection points for temporary e-bike charging. [LANDSCAPE]

## CPTED

• Consider reviewing the below-level sunken public space which seem to be purely for circulation due to the grade change and could have CPTED issues.

The sunken public spaces and the outdoor amenities have been redesigned to cater to the CPTED issued. By providing constant eyes on the public realm. [U.S.]

## Sustainability

• No specific issues were identified.

We acknowledge the panel for not identifying any adverse comments regarding, sustainability strategy employed as part of the design strategy. [U.S.]

## Accessibility

• Consider analysing accessible access to the entire site, especially to outdoor amenities.

The design has been revised to providing a more accessible built and unbuilt environment. Furthermore, the design will cater to the new building code being adopted and implemented in December 2023.Provided 10 units. More details will be provided at building permit level. [U.S.]

• Consider reviewing the accessibility of amenity space for Building 1 as residents need to access these shared common amenity space connected in between Building 2 and 3.

The design has been revised to providing a more accessible built and unbuilt environment. Furthermore, the design will cater to the new building code being adopted and implemented in December 2023.Provided 10 units, more details will be provided at building permit stage. [U.S.]