
CITY OF KELOWNA

MEMORANDUM

Date: September 20, 2018
File No.: Z18-0099
To: Urban Planning Management (LK)
From: Development Engineering Manager (JK)
Subject: 210 Kneller Rd RU1 to RM3

The Development Engineering Department has the following comments and requirements associated with this rezoning application to rezone the subject properties from RU1 – Large Lot Housing to RM3 – Low Density Multiple Housing. The road and utility upgrading requirements outlined in this report will be a requirement of this development and are subject to the review and requirements from the Ministry of Transportation (MOTI).

The Development Engineering Technologist for this project is Andy Marshall.

1. Domestic Water and Fire Protection

- a) This development is within the service area of the Black Mountain Irrigation District (BMID). The developer is required to make satisfactory arrangements with the BMID for these items. All charges for service connection and upgrading costs, as well as any costs to decommission existing services are to be paid directly to BMID.
- b) The developer must obtain the necessary permits and have all existing utility services disconnected prior to removing or demolishing the existing structures.

2. Sanitary Sewer

- a) 210 Kneller Rd. is currently serviced with 100mm sanitary services. An inspection chamber (IC) and brooks box are required. The developer's consulting mechanical engineer will determine the development requirements of this proposed development and establish the service needs. Only one service will be permitted for this development. The applicant, at his cost, will arrange for the removal and disconnection of the existing services and the installation of one new larger service if necessary. Any service improvement and decommissioning works may be included in an offsite servicing design package submission including an estimate for bonding purposes.
- b) 210 Kneller Rd. is within Sanitary Sewer Specified Area # 1. There are no specified area charges for this development.

3. Storm Drainage

The developer must engage a consulting civil engineer to provide a storm water management plan for the site, which meets the requirements of the Subdivision,

Development and Servicing Bylaw No. 7900. The storm water management plan must also include provision of lot grading plan, minimum basement elevation (MBE), if applicable, and provision of a storm drainage service for the development and / or recommendations for onsite drainage containment and disposal systems. Only one service will be permitted for this development. The applicant, at his cost, will arrange the installation of one overflow service if required.

4. Road Improvements

- a) This development application will be limited to one, maximum 6m wide, access to Kneller Rd..

5. Road Dedication and Subdivision Requirements

- a) Grant statutory rights-of-way if required for utility services.

6. Electric Power and Telecommunication Services

All proposed service connections are to be installed underground. It is the developer's responsibility to make a servicing application with the respective electric power, telephone and cable transmission companies to arrange for these services, which would be at the applicant's cost.

7. Design and Construction

- a) Design, construction supervision and inspection of all off-site civil works and site servicing must be performed by a Consulting Civil Engineer and all such work is subject to the approval of the City Engineer. Drawings must conform to City standards and requirements.
- b) Engineering drawing submissions are to be in accordance with the City's "Engineering Drawing Submission Requirements" Policy. Please note the number of sets and drawings required for submissions.
- c) Quality Control and Assurance Plans must be provided in accordance with the Subdivision, Development & Servicing Bylaw No. 7900 (Part 5 and Schedule 3).
- d) A "Consulting Engineering Confirmation Letter" (City document 'C') must be completed prior to submission of any designs.
- e) Before any construction related to the requirements of this subdivision application commences, design drawings prepared by a professional engineer must be submitted to the City's Development Engineering Department. The design drawings must first be "Issued for Construction" by the City Engineer. On examination of design drawings, it may be determined that rights-of-way are required for current or future needs.

8. Servicing Agreements for Works and Services

- a) A Servicing Agreement is required for all offsite works and services on City lands in accordance with the Subdivision, Development & Servicing Bylaw No. 7900. The applicant's Engineer, prior to preparation of Servicing Agreements, must provide adequate drawings and estimates for the required works. The Servicing Agreement must be in the form as described in Schedule 2 of the bylaw.

- b) Part 3, "Security for Works and Services", of the Bylaw, describes the Bonding and Insurance requirements of the Owner. The liability limit is not to be less than \$5,000,000 and the City is to be named on the insurance policy as an additional insured.

9. Other Engineering Comments

- a) Provide all necessary Statutory Rights-of-Way for any utility corridors as required.
- b) If any road dedication affects lands encumbered by a Utility right-of-way (such as Fortis, etc.) please obtain the approval of the utility prior to application for final subdivision approval. Any works required by the utility as a consequence of the road dedication must be incorporated in the construction drawings submitted to the City's Development Manager.

10. Geotechnical Report

- a) Provide a comprehensive geotechnical report prepared by a Professional Engineer competent in the field of hydro-geotechnical engineering to address the items below: **NOTE: The City is relying on the Geotechnical Engineer's report to prevent any damage to property and/or injury to persons from occurring as a result of problems with soil slippage or soil instability related to this proposed development.**
- Overall site suitability for development.
 - Presence of ground water and/or springs.
 - Presence of fill areas.
 - Presence of swelling clays.
 - Presence of sulphates.
 - Potential site erosion.
 - Provide specific requirements for footings and foundation construction.
 - Provide specific construction design sections for roads and utilities over and above the City's current construction standards

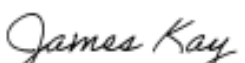
11. Development Permit and Site Related Issues

Access and Manoeuvrability

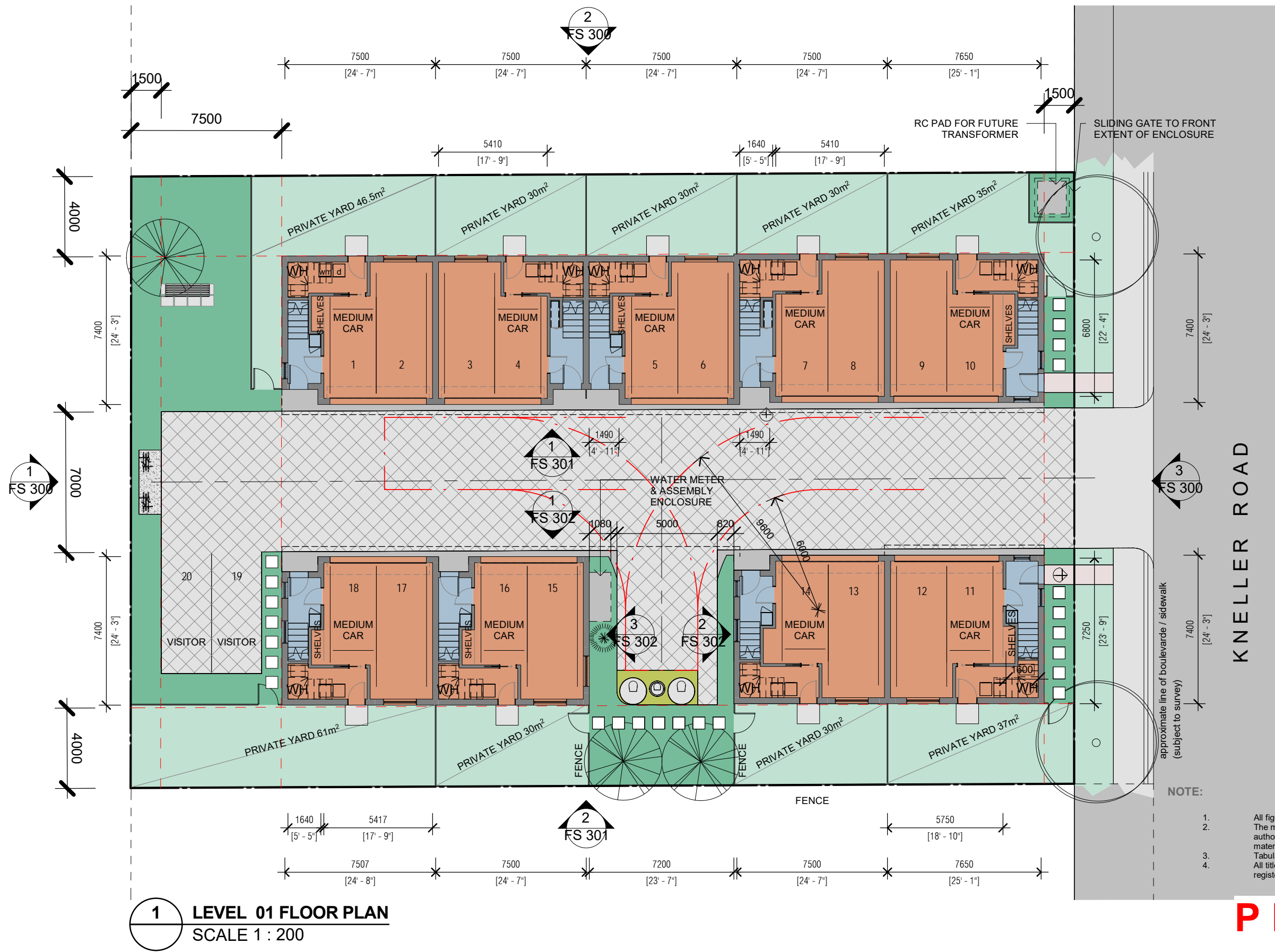
- (i) Ensure acceptable turning movements onsite for MSU design vehicle.
- (ii) Any bicycle racks included with this development shall be onsite.

12. Charges and Fees

- a) Development Cost Charges (DCC's) are payable.
- b) Fees per the "Development Application Fees Bylaw" include:
- i) Engineering and Inspection Fee: 3.5% of construction value (plus GST).



James Kay, P. Eng.
Development Engineering Manager



Parking Schedule		
Mark	Comments	Type
1	MEDIUM	2300(w)x4800(d)
2	STANDARD	2500(w)x6000(d)
3	STANDARD	2500(w)x6000(d)
4	MEDIUM	2300(w)x4800(d)
5	MEDIUM	2300(w)x4800(d)
6	STANDARD	2500(w)x6000(d)
7	MEDIUM	2300(w)x4800(d)
8	STANDARD	2500(w)x6000(d)
9	STANDARD	2500(w)x6000(d)
10	MEDIUM	2300(w)x4800(d)
11	MEDIUM	2300(w)x4800(d)
12	STANDARD	2500(w)x6000(d)
13	STANDARD	2500(w)x6000(d)
14	MEDIUM	2300(w)x4800(d)
15	STANDARD	2500(w)x6000(d)
16	MEDIUM	2300(w)x4800(d)
17	STANDARD	2500(w)x6000(d)
18	MEDIUM	2300(w)x4800(d)
19	STANDARD	2500(w)x6000(d)
20	STANDARD	2500(w)x6000(d)

NOTE:

- 1.
 - 2.
 - 3.
 - 4.
- All figures have been based on preliminary information and are subject to verification. The material contained herein is indicative only and may be subject to approval by the responsible authorities(s), or other factors beyond the control of New Town; receiving parties should not use this material to form the basis of any financial feasibility, contractual negotiation or sale documents. Tabulated floor areas are calculated in accordance with BOMA standards for Net Sellable Area (NSA). All title / cadastral information is taken from City of Kelowna open source data and is subject to survey by a registered Land Surveyor.

PRELIMINARY

