
CITY OF KELOWNA

MEMORANDUM

Date: February 23, 2016
File No.: Z16-0001
To: Urban Planning Department (RR)
From: Development Engineering Manager (SM)
Subject: 2486 Highway 97 N Lot 1, Plan 18724 C9 to C4

The Development Engineering Department has the following comments and requirements regarding this application to rezone the subject property from C9 to C4 to accommodate the construction of a proposed Hotel.

The road and utility upgrading requirements outlined in this report will be a requirement of this development. The Development Engineering Technologist for this project is Jason Ough

1. **General**

- a) These are Development Engineering comments/requirements and are subject to the review and requirements from the Ministry of Transportation (MOTI) Infrastructure Branch.
- b) This proposed subdivision may require the installation of centralized mail delivery equipment. Please contact Rick Ould, Delivery Planning Officer, Canada Post Corporation, 530 Gaston Avenue, Kelowna, BC, V1Y 2K0 (250-763-3558 ext. 2008) to obtain further information and to determine suitable location(s) within the development.
- c) Where there is a possibility of a high water table or surcharging of storm drains during major storm events, non-basement homes may be required. This must be determined by the engineer and detailed on the Lot Grading Plan required in the drainage section.

2. **Geotechnical Report**

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 subdivision.**

- (i) Area ground water characteristics, including any springs and overland surface drainage courses traversing the property. Identify any monitoring required.
- (ii) Site suitability for development.
- (iii) Site soil characteristics (i.e. fill areas, sulphate content, unsuitable soils such as organic material, etc.).

- (iv) Any special requirements for construction of roads, utilities and building structures.
- (v) Suitability of on-site disposal of storm water and sanitary waste, including effects upon adjoining lands.
- (vi) Recommendations for items that should be included in a Restrictive Covenant.
- (vii) Any items required in other sections of this document.
- (viii) Recommendations for erosion and sedimentation controls for water and wind.
- (ix) Recommendations for roof drains and perimeter drains.
- (x) Recommendations for construction of detention or infiltration ponds if applicable.

3. Domestic Water and Fire Protection

- a) The property is located within the Rutland Water District (RWD) service area. The water system must be capable of supplying domestic and fire flow demands of the project in accordance with the Subdivision, Development & Servicing Bylaw. The developer is responsible, if necessary, to arrange with RWD staff for any service improvements and the decommissioning of existing services.
- b) Boulevard landscape irrigation system, must be integrated with the on-site irrigation system.

4. Sanitary Sewer

- a) The developer's consulting mechanical engineer will determine the development requirements of the proposed development and establish the service needs.
- b) The applicant will arrange for the removal and disconnection of one or both of the existing 150mm sewer services and the installation of one new larger service, if required, at the applicants cost. A maximum of one service will be permitted to this property.

5. Storm Drainage

The developer must engage a consulting civil engineer to provide a storm water management plan which meets the requirements of the City Storm Water Management Policy and Design Manual. The storm water management plan will include provision of a lot grading plan, identify minimum basement elevation (MBE), overland drainage routes, floodplain elevations and setbacks, and provision of a storm drainage service for the lot and /or recommendations for onsite drainage containment and disposal systems. The on-site drainage systems may be connected to the existing municipal drainage system in Highway 33 via an overflow service.

6. Road Improvements

- a) Powick Road must be constructed to a full SS-R5 urban standard including curb and gutter, separate sidewalk on property line, piped storm drainage system, fillet pavement, street lights, and adjustment and/or re-location of existing utility appurtenances if required to accommodate this construction.
- b) The proposed Hotel triggers a traffic impact assessment. The applicant's transportation engineer shall contact the City's Transportation & Mobility group who will determine the terms of reference for the study. Recommendations from the Traffic Impact Analysis (TIA) will become requirements of rezoning.

- c) The estimated cost of required road improvement works, for bonding purpose, must be determined based upon a design provided by the developer to be reviewed by the City of Kelowna and MOTI.

7. Road Dedication and Subdivision Requirements

- a) The developer is required to dedicate roadway along Powick Road frontage in order to achieve a minimum 20m standard for Collector Right of Way width.
- b) The required TIA and input from the Ministry will determine the potential need for improvement to the existing channelization island and right turn lane and from Hwy 33 to Hwy 97. A subsequent design will determine how much disposable land is available at this location. The remaining property may be purchased by the developer and consolidated with the subject property.
- c) Grant Statutory Rights of Way if required for utility services.
- d) If any road dedication or closure affects lands encumbered by a Utility right-of-way (such as Hydro, Telus, Gas, etc.) please obtain the approval of the utility. Any works required by the utility as a consequence of the road dedication or closure must be incorporated in the construction drawings submitted to the City's Development Manager

8. 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.

9. 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 (refer to 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.

10. Survey Monuments and Iron Pins

If any legal survey monuments or property iron pins are removed or disturbed during construction, the developer will be invoiced a flat sum of \$1,200.00 per incident to cover

the cost of replacement and legal registration. Security bonding will not be released until restitution is made.

11. Other Engineering Comments

- a) Provide all necessary Statutory Rights-of-Way for any utility corridors required, including those on proposed or existing City Lands.
- b) If any road dedication affects lands encumbered by a Utility right-of-way (such as Terasen, 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.

12. Development Permit and Site Related Issues

- a) Access and Manoeuvrability
 - (i) An SU-9 standard size vehicle must be able to manoeuvre onto and off the site without requiring a reverse movement onto public roadways.
 - (ii) Indicate on the site, the locations of loading bays as well as the garbage and recycle bins.

13. Servicing Agreements for Works and Services

- a) A Servicing Agreement is required for all 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.

14. Charges and Fees

- a) Development Cost Charges (DCC's) are payable.
- b) Fees per the "Development Application Fees Bylaw" include:
 - i) Street/Traffic Sign Fees: at cost if required (to be determined after design).
 - ii) Engineering and Inspection Fee: 3.5% of construction value (plus GST).

Steve Muenz, P. Eng.
Development Engineering Manage
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