

**CITY OF KELOWNA****MEMORANDUM**

Date: February 10, 2020
File No.: Z20-0007
To: Community Planning (JB)
From: Development Engineering Manager (JK)
Subject: 3031-3041 Abbott Street RU1 to C4

Development Engineering has the following requirements associated with this application. 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 Aaron Sangster.

1) Domestic Water and Fire Protection

- a) The development site is presently serviced with two 19-mm water service. The developer's consulting mechanical engineer will determine the domestic, fire protection requirements of this proposed development and establish hydrant requirements and service needs. Only one service will be permitted for this development.
- b) The applicant, at his cost, will arrange for the removal of the existing service and the installation of one new larger metered water service.
- c) The developer must obtain the necessary permits and have all existing utility services disconnected prior to removing or demolishing the existing structures. The City of Kelowna water meter contractor must salvage existing water meters, prior to building demolition. If water meters are not salvaged, the developer will be invoiced for the meters.

2) Sanitary Sewer

- a) The development site is presently serviced with two 100mm-diameter sanitary sewer service. Only one service will be permitted for this development. The developer's consulting civil engineer will determine sanitary sizing for this development. The applicant, at his cost, will arrange for the removal of the existing service and the installation of a new larger service. The new service should tie in to the main on Newsom Ave.

3) Storm Drainage

- a) The developer must engage a consulting civil engineer to provide a storm water management plan for these sites which meets the requirements of the City Subdivision Development and Servicing Bylaw 7900. The storm water management plan must also include provision of lot grading plans, minimum basement elevations (MBE), if applicable, and provision of a storm drainage service and recommendations for onsite drainage containment and disposal systems. Only one service will be permitted for this development.

- b) Provide a detailed Stormwater Management Plan for this development as per the Subdivision, Development and Servicing Bylaw #7900.
- c) Ground water will not be allowed to be pumped to City drainage system.

4) Road Improvements

- a) Abbott Street Rd fronting this development must be upgraded to an urban standard to including barrier curb & gutter, separated 1.8m sidewalk, storm drainage, irrigated landscaped boulevard, laneway driveway letdown and relocation or adjustment of existing utility appurtenances if required to accommodate the upgrading construction.
- b) Newsom Ave fronting this development must be upgraded to an urban standard to including barrier curb & gutter, separated 1.8m sidewalk, storm drainage, irrigated landscaped boulevard, laneway driveway letdown and relocation or adjustment of existing utility appurtenances if required to accommodate the upgrading construction

5) Road Dedication and Subdivision Requirements

By registered plan to provide the following:

- a) Dedicate ~1.5m width along the full frontage of Newsom Ave.
- b) Provide a 6m corner rounding at the intersection of Abbott St and Newsom Ave.
- c) Grant statutory rights-of-way if required for utility services.

6) Electric Power and Telecommunication Services

- a) All proposed distribution and service connections are to be installed underground. Existing distribution and service connections, on that portion of a road immediately adjacent to the site, are to be relocated and installed underground as this site is located within the South Pandosy urban town centre.
- b) Streetlights must be installed on Abbott St and Newsom Ave if needed.
- c) Make servicing applications to the respective Power and Telecommunication utility companies. The utility companies are required to obtain the City's approval before commencing construction.
- d) Re-locate existing poles and utilities, where necessary. Remove aerial trespass (es).

7) Engineering

Road and utility construction design, construction supervision, and quality control supervision of all off-site and site services including on-site ground recharge drainage collection and disposal systems, must be performed by an approved consulting civil engineer. Designs must be submitted to the City Engineering Department for review and marked "issued for construction" by the City Engineer before construction may begin.

8) 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 Works & Utilities 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.

9) 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

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 subdivision.**

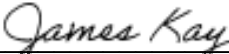
The Geotechnical report must be submitted prior to submission of Engineering drawings or application for subdivision approval.

- 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. Slope stability, rock fall hazard and slippage including the effects of drainage and septic tank effluent on the site.
- vii. Identify slopes greater than 30%.
- viii. Top of bank assessment and location including recommendations for property line locations, septic field locations, building setbacks, and ground water disposal locations.
- ix. Recommendations for items that should be included in a Restrictive Covenant.
- x. Any special requirements that the proposed subdivision should undertake so that it will not impact the bank(s). The report must consider erosion and structural requirements.
- xi. Any items required in other sections of this document.
- xii. Recommendations for erosion and sedimentation controls for water and wind.
- xiii. Recommendations for roof drains and perimeter drains.
- xiv. Recommendations for construction of detention or infiltration ponds if applicable.

11) 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) Survey Monument, Replacement Fee: \$1,200.00 (GST exempt) – only if disturbed.
 - iii) Engineering and Inspection Fee: 3.5% of construction value (plus GST).



 James Kay, P. Eng.
 Development Engineering Manager

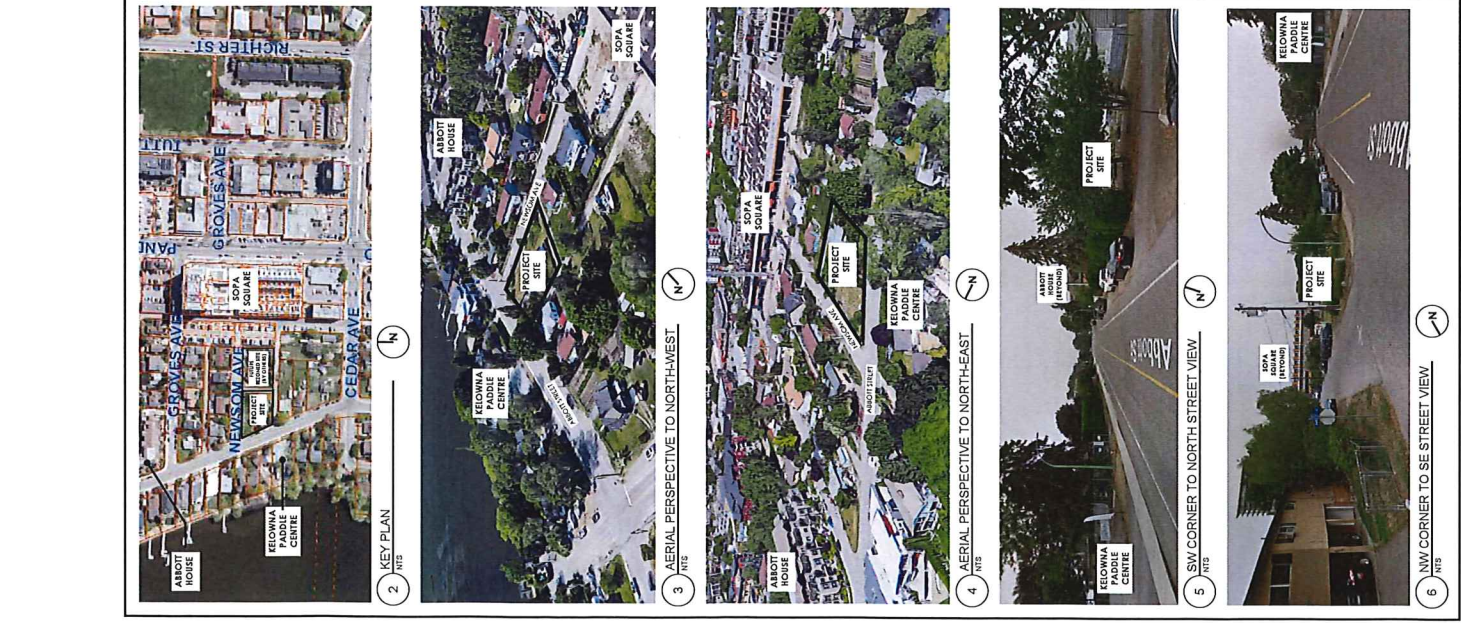
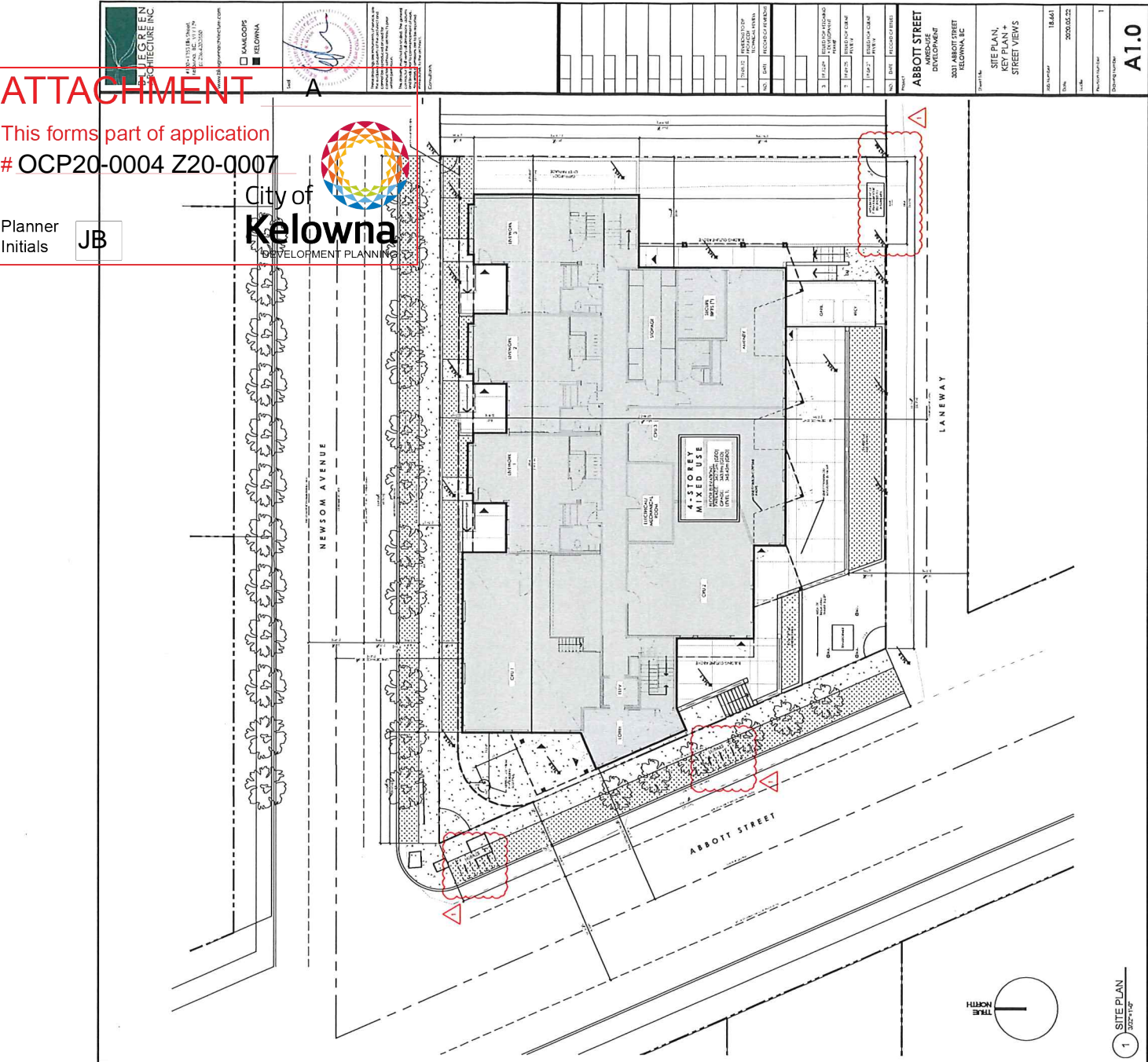
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ATTACHMENT

This forms part of application
OCP20-0004 Z20-Q007

Planner
Initials
JB

City of
Kelowna
DEVELOPMENT PLANNING



1. SITE PLAN	2. KEY PLAN	3. AERIAL PERSPECTIVE TO NORTHWEST	4. AERIAL PERSPECTIVE TO NORTHEAST	5. SW CORNER TO NORTH STREET VIEW	6. NW CORNER TO SE STREET VIEW
DATE: 2020.05.22	DATE: 2020.05.22	DATE: 2020.05.22	DATE: 2020.05.22	DATE: 2020.05.22	DATE: 2020.05.22
PROJECT NUMBER: 1	PROJECT NUMBER: 1	PROJECT NUMBER: 1	PROJECT NUMBER: 1	PROJECT NUMBER: 1	PROJECT NUMBER: 1
DRAWING NUMBER: A1.0	DRAWING NUMBER: A1.0	DRAWING NUMBER: A1.0	DRAWING NUMBER: A1.0	DRAWING NUMBER: A1.0	DRAWING NUMBER: A1.0

ABBOTT STREET
DEVELOPMENT
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KELOWNA, BC
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