

Certain layers such as lots, zoning and dp areas are updated bi-weekly. This map is for general information only.

The City of Kelowna does not guarantee its accuracy. All information should be verified.

CITY OF KELOWNA

MEMORANDUM

Date:

October 19, 2015

File No .:

Z15-0046

To:

Community Planning (AC)

From:

Development Engineering Manager

Subject:

125 Dundas Rd & 815 Hwv 33 W

RU1 to RM5

Development Engineering Department have the following comments and 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 Sergio Sartori

1. Domestic Water and Fire Protection

- (a) This development is within the service area of the Rutland Waterworks District (RWD). The developer is required to make satisfactory arrangements with the RWD for these items. All charges for service connection and upgrading costs are to be paid directly to the RWD. The developer is required to provide a confirmation that the district is capable of supplying fire flow in accordance with current requirements.
- (b) A water meter is mandatory as well as a sewer credit meter to measure all the irrigation water. Water meters must be housed in an above-ground, heated, accessible and secure building, either as part of the main site buildings or in a separate building. Remote readers units are also mandatory on all meters.

2. Sanitary Sewer

(a) The existing lots are serviced with 150mm diameter sanitary service. The developer's consulting mechanical engineer will determine the requirements of this proposed development and establish the required size and preferred location of the service. Only one service will be permitted for this development. The applicant, at his cost, will arrange for the removal of one of the existing services. The estimated cost of this construction for bonding purposes is \$4,000.00

3. Storm Drainage

- (b) 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.
- (b) Only one service will be permitted for this development. The applicant, at his cost, will arrange for the installation of one new overflow service. The new

service should tie in to the main on Dundas Rd. The estimated cost of this construction for bonding purposes is \$5,000.00

4. Road Improvements

Dundas Street must be upgraded to an urban standard along the full frontage of this proposed development, including curb and gutter, separate sidewalk, corner bulb, landscaped boulevard complete with street trees, drainage system including catch basins, manholes and pavement removal and replacement, street lighting and re-location or adjustment of utility appurtenances if required to accommodate the upgrading construction. The estimated cost of this construction for bonding purposes is \$23,000.00

Hwy 33 W will require removal of the driveway letdowns and separate sidewalk from the removed letdown to Dundas Road. The 2 trees located within the dedicated road area are to remain. A tree covenant will be required for proper care of the trees during construction. In addition a hard surfaced boulevard complete with street trees, street lighting and re-location or adjustment of utility appurtenances if required to accommodate the upgrading construction. The estimated cost of this construction for bonding purposes is \$10,000.00

5. Transportation

a) These Development Engineering comments/requirements and are subject to the review and requirements from the Ministry of Transportation (MOT) Infrastructure Branch.

6. Road Dedication and Subdivision

- (a) Lot consolidation is required.
- (b) Grant Statutory Rights Of Way if required for utility services.
- (c) Dedicate ~5.26m width along the full frontage of Hwy 33 West complete with a 6.0 m corner rounding at the intersection of Dundas Rd and Hwy 33 W.
- (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.

7. 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 the subject properties are within the "Rutland Urban Centre".
- b) Streetlights must be installed on Dundas Rd 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).

This forms part of development Permit # 215-0046

8. <u>Engineering</u>

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.

9. <u>Design and Construction</u>

- (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.

10. <u>Servicing Agreements for Works and Services</u>

- (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.

11. Geotechnical Report

As a requirement of this application the owner must provide a geotechnical report prepared by a Professional Engineer qualified in the field of hydro-geotechnical survey to address the following:

(a) Area ground water characteristics.

(b) Site suitability for development, unstable soils, etc.

(c) Drill and / or excavate test holes on the site and install pisometers if necessary. Log test hole data to identify soil characteristics, identify areas of fill if any. Identify unacceptable fill material, analyse soil sulphate content,

This forms part of development Permit # 215-0046

Identify unsuitable underlying soils such as peat, etc. and make recommendations for remediation if necessary.

- (d) List extraordinary requirements that may be required to accommodate construction of roads and underground utilities as well as building foundation designs.
- (e) Additional geotechnical survey may be necessary for building foundations,

Bonding and Levy Summary 12.

Bonding (a)

Water service upgrades	N/A
Sanitary sewer service upgrades	\$ 4,000
Storm overflow services	\$ 5,000
Dundas Rd frontage improvements	\$ 23,000
Hwy 33 W frontage improvements	\$ 10,000
Total Bonding	\$41,000.00

The bonding amount shown above are comprised of estimated construction costs escalated by 140% to include engineering design and contingency protection and are provided for information purposes only. The owner should engage a consulting civil engineer to provide detailed designs and obtain actual tendered construction costs if he wishes to do so. Bonding for required off-site construction must be provided and may be in the form of cash or an irrevocable letter of credit, in an approved format.

The owner must also enter into a servicing agreement in a form provided by the

Development Permit and Site Related Issues 12.

Access and Manoeuvrability

Access to the site will be permitted from Dundas Rd.

Indicate on the site, the locations of loading bays as well as the garbage and recycle bins.

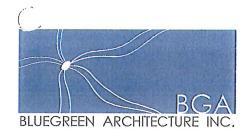
Trees fronting Hwy 33

A tree covenant will be required for proper care of the trees during construction.

Steve Muent, P. 日ng.

Development Engineering Manager

SCHEDULE Attachment'A' This forms part of development Permit # 215-0046



THE VARSITY Student Residence DESIGN RATIONALE

August 20, 2015 - Development Permit Application

ARCHITECTURAL PROJECT PLANNING

The VARSITY is a new student housing development on the Southeast corner of Highway 33W and Dundas Road located within the Rutland Urban Centre. Based on the proposed RM-5 zoning, the building is 4½ stories, with the top floor incorporated into a dormer architecture, and partial under-cover parking at grade.

The primary planning considerations for the development were to create a project that responds to sensitively to the nearby neighbours, develops a massing that is in keeping with the adjacent RM5 (Mulit-family) developments in the area, and to craft an architectural vocabulary that continues to revitalize the immediate and greater Rutland area where it is located.

Additionally, the rationale behind the development of a student residence in this location is multi-faceted:

Proximity to BC Transit – both to UBCO and Okanagan College

The #8 UBCO – OC Bus Line traveling to UBCO stops on Highway 33, on the development's side of the highway, just 5 meters from the northeast property line. Directly across Highway 33, is the bus stop for the #8 Bus line going directly to Okanagan College. Transit time to UBCO from our building is estimated at 16 minutes door to door, and to Okanagan College 28 minutes door to door. During peak hours, these buses stop at this stop every 15 minutes.

Proximity to Merchant and Retail Services

At the corner of Highway 33 W and Hollywood Road S, which Google Maps shows is a 300 meter, or a four-minute walk from the development, are 31 Shops and Services, which Students want, and would patronize (list attached)

Parks and Outdoor Activities

Directly across Highway 33W, from our building, and 2 blocks north up Franklyn Road, is Ben Lee Park. Ben Lee Park provides the amenities that university aged students are looking for. The park has a basketball court, a multi-purpose (netted) court, a skateboard park, as well as running and hiking trails. At 7.3 hectares, there is ample room for exercising, running, or quiet time and studying, at Ben Lee Park.

Architecturally, the development is a marriage of traditional materials (brick, siding and stucco) with a palette of colors that creates a modern mix of colors and textures that give the building strong architectural interest. As a

Kevin Ryan | Architect AIBC - MA (Hons) - DA - LEED AP

Wendy Rempel | Architect AIBC - M.Arch - B.Arch

www.bluegreenarchitecture.com

KAMLOOPS

2 - 436 Lorne Street, Kamloops, BC V2C IW3 P | 250.374.1112 F | 250.374.2279 KELOWNA

202 - 110 Highway 33 West, Kelowna, BC VIX 1X7 P | 778.753.2650 F | 778.753.1448

Page I of 3

student residence, there is an additional need of creating an architectural vocaulary with a modern flair, which is created with the green punches of color.

The highest profile elevations are the Highway 33 Elevation (North) and the Dundas Elevation (West). Significant attention has been given to creating architecture that has both material and textural interest as well as 3-dimensional façades for further development of shadow and depth in these elevations. The building sits within the required setbacks per the zoning bylaw for RM-5. The east elevation matches, in general, the architecture on the west elevation that faces the multi-family development to the east. A variance is being sought for the east setback to 5.8 m in lieu of the 7m required). To be sensitive and maintain significant architectural interest to the adjacent neighbor, part of the request for the variance in this case is to allow for a continuation of the 3-dimensional architecture that appears on the North and West façades. The South elevation is consistent in color and texture palette in order to, again, create interest facing the neighbor to the south, although currently there is a very tall cedar hedge on the north edge of the adjacent property that creates a significant privacy buffer. A variance is being sought for the south setback from 9m to 7.68m. This is in part to continue some 3-dimensional interest as well as to accommodate the parking for the project (below). The setback reduction still maintains a significant separation from the adjacent property.

There is a private open space requirement of 25 square metres / unit for the RM5 zone for units exceeding 1 bedroom. This development proposal incorporates 23 units in excess of 1 bedroom equaling a total of 575 sm. required P.O.S. area. There are two variances being sought in order to address the issue of the Private Open Space requirement. First, based on the use (student housing), the POS component was addressed in common spaces rather than individual spaces. In order to create reasonably-sized internal common/social spaces, the building needed to expand to slightly (Building area allowable: 40%; Actual: 43.05%). The project incorporates a fitness room, a yoga room, a quiet study room and a student lounge and games room with an exterior deck creating significant internally-focused social and active spaces for students.

Second, in order to compensate for a 5.25m road dedication loss to the property along Highway 33, the development seeks a variance to the stipulation that Private Open Space cannot be part of a required setback(s). The north and east setbacks have been calculated into the POS area. And due to the variance request, there has been significant attention given to landscaping, as well as the social and interactive needs of the students. The project has developed a beautiful green space that not only achieves the appealing, inviting environment that makes this space very useable by students, but creates and enhances the streetscape appeal for the general public. Due to the very close proximity of the adjacent bus stop, the landscape concept additionally maintains a definition between the public and private realms in order to maintain security and privacy for the occupants while creating a park-like setting within.

The project also seeks two variances to the parking requirement which have been outlined by the developer in a letter dated August 13, 2015 (attached) wherein is outlined the rationale for the reduction, and proposed solution to address actual student and City requirements.

Further to the attachment, it is important to note that the above-noted transit, merchant and amenity features so accessible to the development's location, strongly suggest that the students living there will not need cars. It is expected to attract student residents that either cannot afford, or choose not to own and operate a car. Accordingly, we would request that this be considered in our parking requirements and proposed variance.



List of Merchants:

McDonalds

Tim Horton's

Wendy's

Shoppers Drug Mart - with a Post Office

Rexall Drugstore

Panago Pizza

Starbucks

TacoTime

IGA Supermarket

Liquor Depot

Wings Tap and Grill

Sushi Zen Restaurant

Zabb Thai Restaurant

Pizza Factory

Specialty Bakery

Johnny's Meats and Deli

Old Town Farmers Market

New Empress Chinese Restaurant

Insurance - Autoplan

Dollar Store

H+R Block Taxes

Hollywood Shoes

Purple Sea Horse Pet Store

Rutland Optical

Brayd's Hair Salon and Tanning Spa

First Choice Hair Cutters

Nails + Spa

Central Spa and Nails

Esso Gas Station - Car Wash

Curves - Women's Fitness

Quantum Video Games Store

Two blocks further east on Highway 33, there is a Dairy Queen, KFC, and another grouping of services and merchants.

Ryan Smith, BA, RPP, MCIP Department Manager, Community Planning City of Kelowna 1435 Water Street, Kelowna, BC V1Y 1J4

Re: Student Housing Parking Review

<u>Development:</u> 125 Dundas Road and 815 Highway 33 W Proposed 23 Unit Rental Apartment Building

RM5 Zoning Calls for 46 parking Spaces (2 x Unit) Current proposal provides for 27 Parking Spaces Current Shortfall is 19 Parking Spaces

Dear Ryan,

I wanted to present you with some research and facts from similar student housing facilities located here in Kelowna, to corroborate my proposal to you in regards to our parking space requirements.

We had discussed the dedication of an OGO car share vehicle on site to provide extra transportation in lieu of fewer cars from tenants. In speaking with Christian Brandt, the Managing Director of OGO, he advised me that in it's first full year of placement at Academy Hill, they signed up 10 new members (users) for their (single) OGO car share vehicle and they had 5-6 occasional users of that car that were already OGO members. He suggests that this number of users is low, compared to his other locations. Academy Hill is comprised of 15 one bedroom and den units and 63 two bedroom and den units...78 units in total. Assuming that the 'dens' are occupied by students as sleeping areas, total residency at Academy Hill could be about 215 people. This is more than double our expected occupancy. If only 10 people out of 200+ tenants sign up for car share membership, I believe that we should consider placement of one OGO car share vehicle at our development.

Of particular interest is the additional feedback from Christian Brandt, regarding inquiries for the OGO car share program from the Rutland area. He indicates that he has comparatively more interest from Rutland than from any other un-serviced area in greater Kelowna. He feels that there would be substantial membership sign-ups coming from the community at large, over and above the tenants in our building. In short, the benefit of placing an OGO car share vehicle at our development would become a community benefit.

In a Vancouver Sun Newspaper article, which ran on November 29th, 2014, entitled "Vancouver Swaps parking requirement for car shares", the writer referred to a recent metro Vancouver study, which showed that "...one car share vehicle takes up to 11 cars off the road." The writer went on to report that "parking supply in strata apartments is 18 to 35 percent oversupplied across the region, with the highest vacancies near transit hubs."

I believe these stats are particularly relevant in our situation, due to a number of factors:

- 1. Transit Access The #8 UBCO OC Bus Line (going both directions) stops on Highway 33, beside, and directly across, from our proposed building. Transit time to UBCO from our building is estimated at 16 minutes door to door, and to Okanagan College 28 minutes door to door. During peak hours, these buses stop here every 15 minutes.
- 2. Access to Services and Amenities Within a 2 block (5 minute) stroll from our building are 31 retail and service businesses that students require. They include:

Tim Hortons
McDonalds
Wendy's
TacoTime Cantina
Wings Tap and grill
Panago Pizza
Sushi Zen
IGA Supermarket
2 x Drug Stores
Walk-in Medical Clinic
3 x Personal Care and Hair Styling Shops
Liquor Store

With transit access, and shops and services this close to our building, the students we attract will likely not own cars. We feel that car ownership, and therefore parking requirements, at our building, will be considerably lower than other apartment buildings, which cater to a wider rental market, especially those buildings located away from main transit arteries.

We would like to address our shortfall of 19 parking spaces with the following proposal:

- A) Install, at our cost, one OGO car share vehicle, for a minimum 2 year commitment period.
- B) Consider that the OGO car share reduces parking (cars) by $11 \ \text{spaces}$

C) Submit a one-time payment to the City of Kelowna in the amount of \$60,000 to mitigate the remaining 8 space shortfall ($8 \times 7500)

Attached are a copy of the Vancouver Sun article, and confirmation from OGO on their membership numbers, for your consideration.

Best Regards,

David Hallonquist
Unico One Developments Ltd.
101 – 1865 Dilworth Drive,
Suite #351,
Kelowna, BC
V1Y 9T1



Project No.:

15055-10

File No.:

1-5-001

COST

December 22, 2015

Unico One Developments Ltd. 101-1865 Dilworth Drive Kelowna, BC V1Y 9T1 TIME

Attention:

Mr. Dave Hallonquist

QUALITY

Dear Sir:

Re:

Varsity Student Housing, Kelowna, BC

Parking Review

Unico One Developments Ltd. is proposing to develop 125 Dundas Road and 815 Highway 33 with a 23 unit Purpose Built Student Housing development.

The Varsity Student Housing project will add much needed dedicated student rental housing to the Highway 33 commercial area of Kelowna. There has been a severe lack of affordable student rental housing developed within Kelowna, with minimal off campus dedicated student housing available.

Current City of Kelowna Zoning Bylaw Parking requirements call for 2 parking stalls per unit for a total site requirement of 46 parking stalls.

The proposal is to provide much needed student rental accommodations to help facilitate Kelowna's current and future student housing needs. CTQ has been engaged to provide information validating the reduction of the City's above noted parking requirements to 1 stall per 4 student beds, so that Unico One Developments Ltd. can submit the variance to the City, for consideration.

The proximity of the site to the Highway 33 / Hollywood Road Commercial area (Hollywood Road is less than 200 m away), and adjacent public transit, work to support the City Official Community Plan vision and support a reduction in the single vehicle occupant and vehicle dependences that were associated with the current Zoning Parking requirements. Further, other jurisdictions recognize that rental suites and urban core uses, such as apartment housing, require less parking stalls per unit than conventional single family detached housing.

The determination of the parking demand is a function of the following:

- proximity to the commercial core;
- proximity and availability of public transit;
- proximity and quality of pedestrian facilities;
- affordability of rental housing is a function of average income of residents and has a direct effect on level of car ownership.

The initial cost to a project for the development and provision of onsite parking is reflected in the ultimate cost of the facility to the end user, and is reflected in either a higher cost of ownership or higher monthly rental rates. The greater the amount of parking constructed the higher the end user cost.

The City of Kelowna Official Community Plan states in the Introduction – *An important part of a sustainable city is creating centrally-located communities served by transportation routes that encourage transit, bicycles, and pedestrians, and by efficient infrastructure. These three elements - land use, transportation and infrastructure - are the core decisions that the OCP is meant to guide.*

The first three goals for a sustainable future in the OCP are:

- 1. **Contain Urban Growth**. Reduce Greenfield urban sprawl and focus growth in compact, connected and Mixed-use (residential and commercial) urban and village centers.
- 2. Address Housing Needs of All Residents. Address housing needs of all residents by working towards an adequate supply of a variety of housing.
- 3. Feature a Balanced Transportation Network. Increase the attractiveness, convenience and safety of all modes of transportation by implementing "complete streets" that are designed to serve a broader range of transportation modes, focusing on pedestrians, cyclists and transit service, and function in the context of surrounding land uses.

The Varsity Student Housing project aligns with all of the above OCP goals.

A DP was issued in April 2014, for 225 Rutland Road S, which is also a purpose built student housing residence, with 22 4 bedroom units stacked on top of a main floor designated as commercial space. The 225 Rutland Road S site zoning is C4, versus the RM5 zoning for 125 Dundas Road / 815 Highway 33 W. The C4 zoning requires only 1 parking space per unit. Council approved the Rutland Road development on the basis one parking spot would service each 4 bedroom unit.

The site is proposed as purpose built student housing and is anticipated to have parking utilization and characteristics similar in nature to on campus student housing. To assist with the review of a reduced parking ratio for the off campus student housing development, a review of on campus parking for student housing is provided.

REVIEW OF ON SITE UNIVERSITY RESIDENCE PARKING

UBC Okanagan:

- 8,400 students, of which 810 are international students;
- 1,050 Faculty and Staff;
- 1,720 residence beds in total, 620 residence beds with kitchen facilities;
- 2,700 parking stalls, 320 parking stalls allocated for residence use (at a monthly rate);
- Average of one parking stall for every 7 student residence beds.

University of Victoria

- 19,500 students;
- 1,900 Faculty and Staff;
- 2,500 residence beds in total, 480 residence beds with kitchen facilities;
- 4,200 parking stalls, 194 parking stalls allocated for residence use (at a monthly rate);
- Average of one parking stall for every 12 student residence beds.

Thompson River University

- 13,200 students;
- 574 residence beds in total;
- 2,400 parking stalls, 123 parking stalls allocated for residence use (at a monthly rate);
- Average of one parking stall for every 5 student residence beds.

To assist with the review of a reduced parking ratio for rental apartment housing, a review of other jurisdictions parking standards is provided.

REVIEW OF OTHER JURISTICTIONS

A review of parking requirements from other jurisdictions provides the following:

- The Okanagan communities have similar rates to the City of Vernon, with an average of 1 to 1.25 stalls per multifamily units. Parking rates do not differentiate between rental and non rental uses. There has been a minimal amount rental housing developed in the Okanagan over the past 30 years.
- City of Kamloops (within the downtown specified area) 1 space per Multi Family dwelling unit (no additional 15% visitor parking required);
- City of Vancouver a minimum of 0.5 parking stalls for each unit that is less than 50 m² of GFA;
- City of Edmonton within the downtown ARP, 0.5 to 1 parking stalls per unit;
- City of Calgary within the downtown core, 0.5 to 1 parking stalls per unit;

- City of Hamilton -1 space per unit, 0.3 spaces when the dwelling is less than 50 m²;
- City of Toronto Between 0.2 and 1.65 spaces based on number of bedrooms, location within the city and tenure;
- City of Ottawa Between 0 and 1 space depending on location within the city and if it is within 600m of a rapid transit station;

Several cities have standardized the means to vary parking requirements, as follows:

- Calgary minimum parking requirements may be reduced if:
 - the building is listed as a heritage structure; or
 - a Transportation Demand Management (TDM) measure is approved by the Development Authority where the TDM is included in an approved plan or as a condition on the development permit.
- Winnipeg the Director of Planning may approve a Parking Management Plan if the lower parking amount will adequately service the use (or combination of uses) without incurring additional parking congestion on surrounding streets or lanes.

The Metro Vancouver Apartment Parking Study, City of Vancouver, September 2012; noted the following:

Vehicle holdings and parking demand for apartment renters are much lower than for owners. This is consistent with prior research. In purpose-built market rental sites, the parking demand range is 0.58 - 0.72 vehicles per apartment unit.

Visitor parking supply may be over supplied. Observed parking demand rates were below 0.1 stall per apartment unit, compared to the typical municipal requirement of 0.2 visitor stall per apartment unit.

Generally, market and non-market renters have lower vehicle ownership rates than do apartment owners. In order to maximize affordability and efficiency in apartment buildings, municipalities should encourage rental housing in Urban Centres and Frequent Transit Development Areas. Household expenditures on transportation should inherently be lower in locations near transit as there is a reduced need to own or operate a private personal vehicle. Reduced parking reduces the cost of development. Municipalities could encourage rental apartment units near transit by reducing or waiving parking requirements as part of an incentive package as appropriate, and encouraging inclusion of rental apartment units in new developments through policy or housing agreements.

Parking rates vary greatly from jurisdiction to jurisdiction, with the average being less than 1 stall per unit for conventional residential rental and market housing. Parking rates continue to be reduced as communities bring zoning requirements into alignment with current trends toward less single occupant vehicle oriented developments and lifestyles.

Student housing parking needs are further reduced by the provision of student transit passes and limited on campus parking availability, combined with the low percentage of vehicle ownership among students.

PROPOSED DEVELOPMENT

The site is located at 125 Dundas Road and 815 Highway 33 W, with the proposed layout of the 23 unit student housing apartment building shown on the Blue Green Architecture Inc. Site Drawing. The purpose built student housing proposal calls for 23 units, made up of a mix of 3, 4 and 5 bedroom units, with a total of 97 beds. Each unit has a communal kitchen and shared bathroom facilities. The site is planned with a total of 27 parking stalls.

Transit Facilities

The BC Transit #8 bus, with direct service to UBCO, and Okanagan College, stops on Highway 33 immediately in front of, and directly across the street from the site. The transit time from the site to UBCO is 16 minutes, and to Okanagan College is 28 minutes. The BC Transit schedule uses commuter 15 minute service durations during peak hours, for both the UBCO and Okanagan College transit route. The transit time on the #8 bus to Orchard Park Shopping Mall is 14 minutes.

Pedestrian Facilities

The site has a walk score of 70 / 100 and is considered "Very walkable, so most errands can be completed on foot". The average walk score for Kelowna is 42 / 100. The onsite campus housing at UBCO and Academy Way developments have very low walk scores (24 to 29 / 100) and are considered "Car Dependant. Almost all errands require a car".

Ben Lee Park is 400m to the north of the site. The 7.3 hectare Ben Lee Park provides a basketball court, a multi-purpose court, a skateboard park, and running and hiking trails.



Site Location Walk Score

815 Highway 33 has a Walk Score of 70 out of 100. This location is Very Walkable so most errands can be accomplished on foot.

This location is in Kelowna. Nearby parks include Ben Lee Park, Rutland Bluff Linear Park and Rutland Centennial Park.



Site Location 20 Min Walk Area

CONCLUSION / RECOMENDATION

With the percentage of car ownership among students well below the average; the proximity of the site to the Highway 33 / Hollywood Road Commercial area; the proximity of the site to public transit; these factors provide for a supportable reduction in the current unit zoning requirement for onsite parking.

We recommend the City of Kelowna review the provision of 1 parking stall per unit, for student dedicated residential rental housing units where they are located within close proximity to commercial and business districts and transit facilities. The ratio of visitor parking stalls can remain unchanged at one space per 7 residential units.

As an alternate, for dedicated student rental housing facilities the parking rate could be based on the number parking stalls per beds, with 1 stall required for every 4 beds.

If you have any further questions or require any additional information please contact our office.

Yours truly,

CTQ CONSULTANTS LTD.

Tave Coller

Per:

David D. Cullen, P.Eng. Transportation Engineer

DDC Enclosure Ryan Smith, Adam Cseke Community Planning City of Kelowna 1435 Water Street, Kelowna, BC V1Y 1J4

Re: VARSITY Student Residence Neighborhood Consultation

<u>Development:</u> 125 Dundas Road and 815 Highway 33 W Proposed 23 Unit Rental Apartment Building

Dear Ryan, Adam,

I have conducted the neighbourhood consultation, for the above-mentioned development, as required under policy 367. I attach the original, signed copies, of the comment sheets, from each resident that I consulted with. The comment sheet allows each resident to show their approval rating from a scale of 1-5, with 5 being the best approval rating, and 1 being the rating for the least approval.

We received:

5's - 8

4's - 6

3's - 2

2's - 0

1's - 1

There is only one address within the 50 meter radius that I could not make contact with: 155 Dundas Road. The owner is away traveling. I determined this from the owners brother, Rick Schneider, who owns 145 Dundas Road, and who is also partowner of 155 Dundas Road. As Rick gave us a "5", and he suggested his brother would as well, I have no problem with not having this comment.

Regards,

David Hallonquist

Unico One Developments Ltd.





SCHEDULE A.B. TC

This forms part of development

Permit # 1015 - 0197



STUDENT RESIDENCE DEVELOPMENT

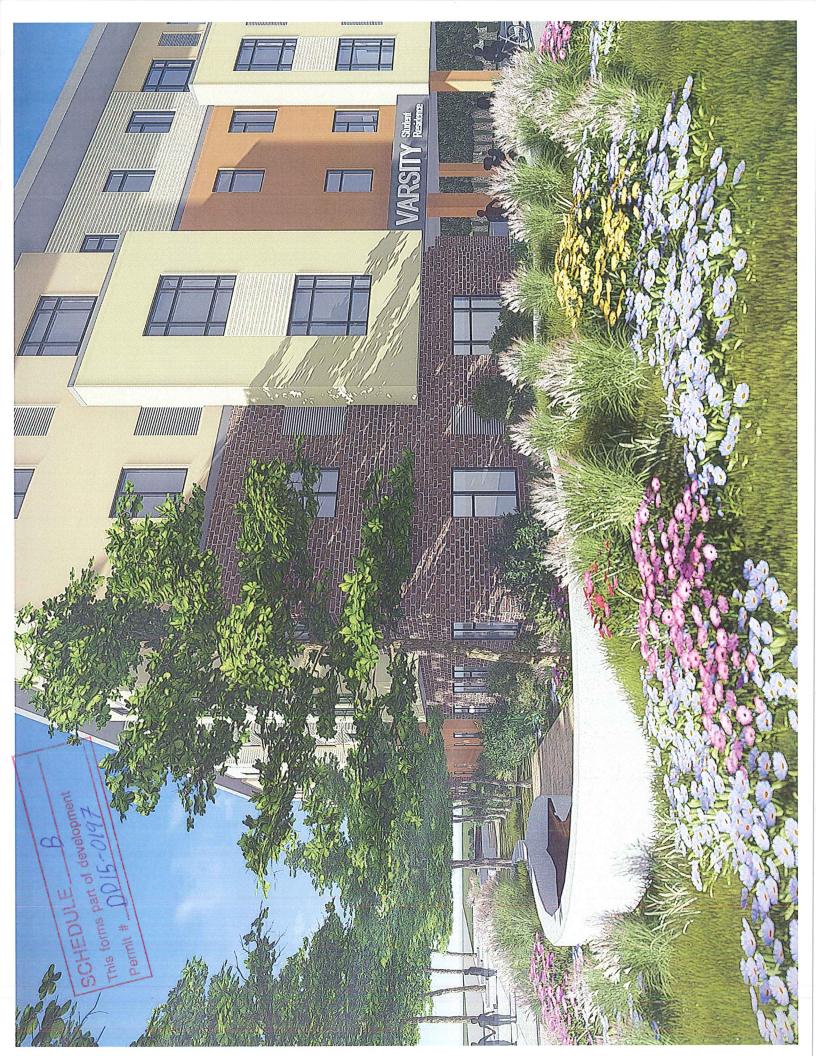












- PROJECT LOCATION

LEGAL DESCRIPTION: LOTS A & B, TP. 26, O.D.Y.D. PL. 19344, EXCEPT PL. 39372

PROJECT LEGAL DESCRIPTION



2 SITE CONTEXT PLAN NTS

PROJECT LOCATION

(1) SITE LOCATION NTS

UNIT AND COMMON AREA SUMMARY

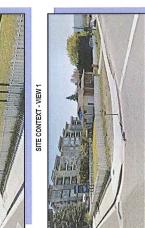
ZONING SUMMARY





SITE CONTEXT - VIEW 2



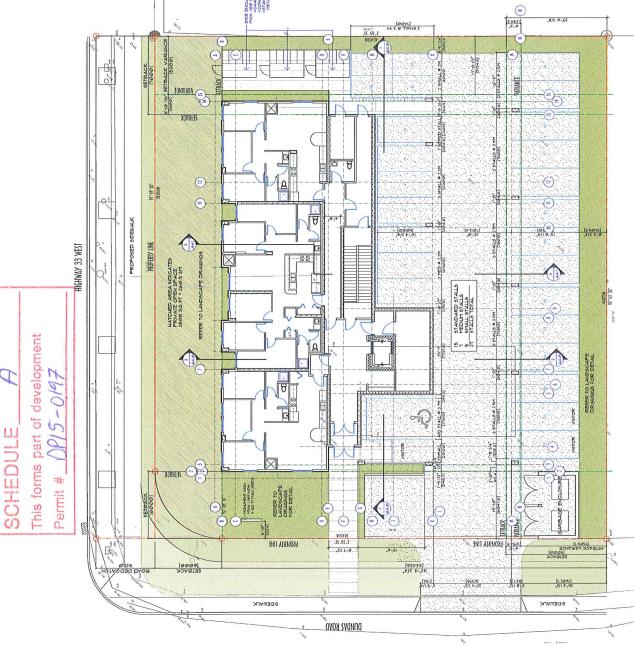


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SITE CONTEXT - VIEW 3









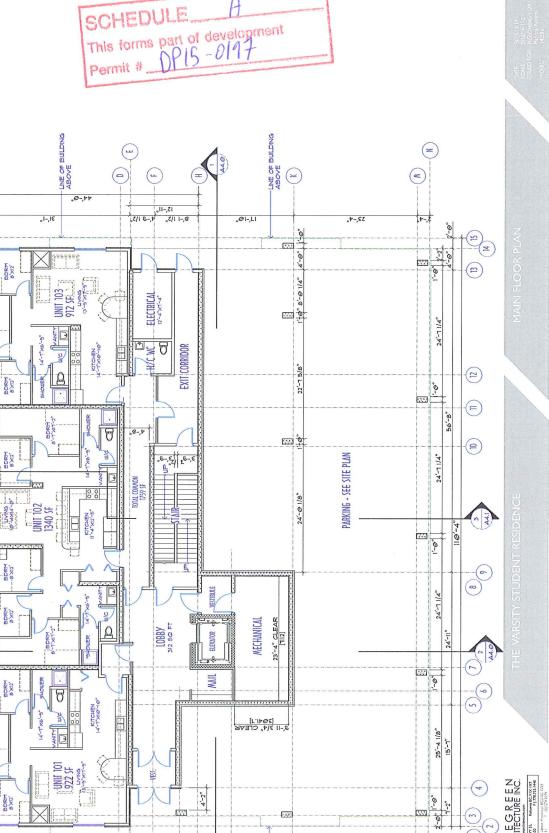


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LINE OF BUILDING-ABOVE





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(m)

LINE OF BUILDING ABOVE

(m) 10

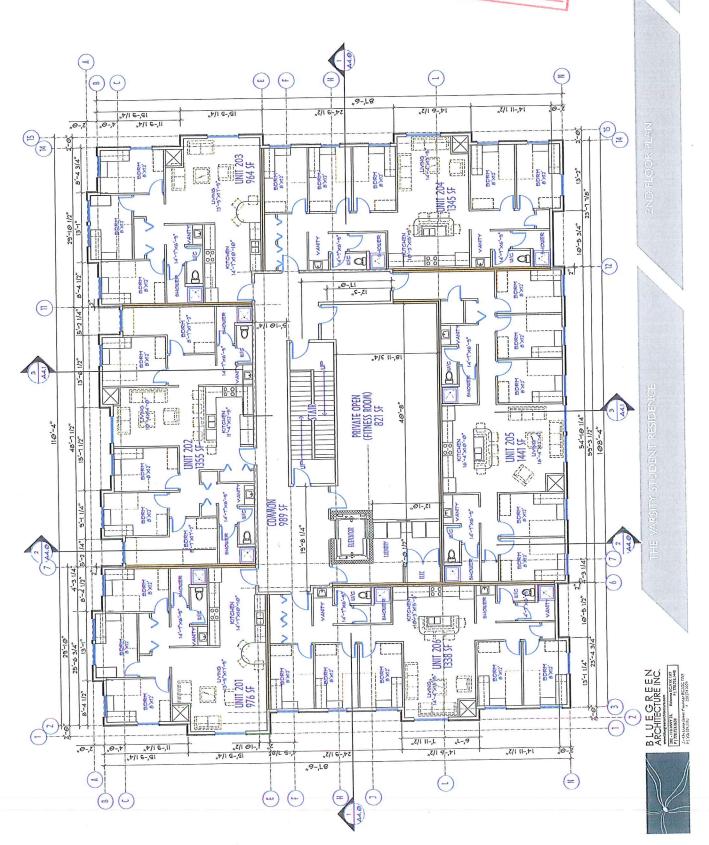
29-10 1/8"

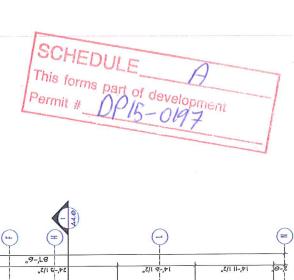
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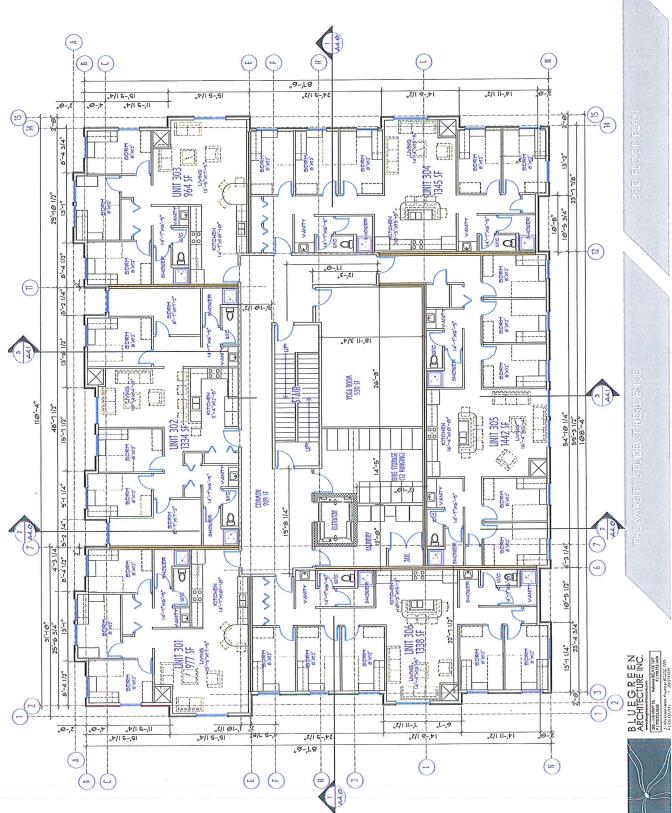
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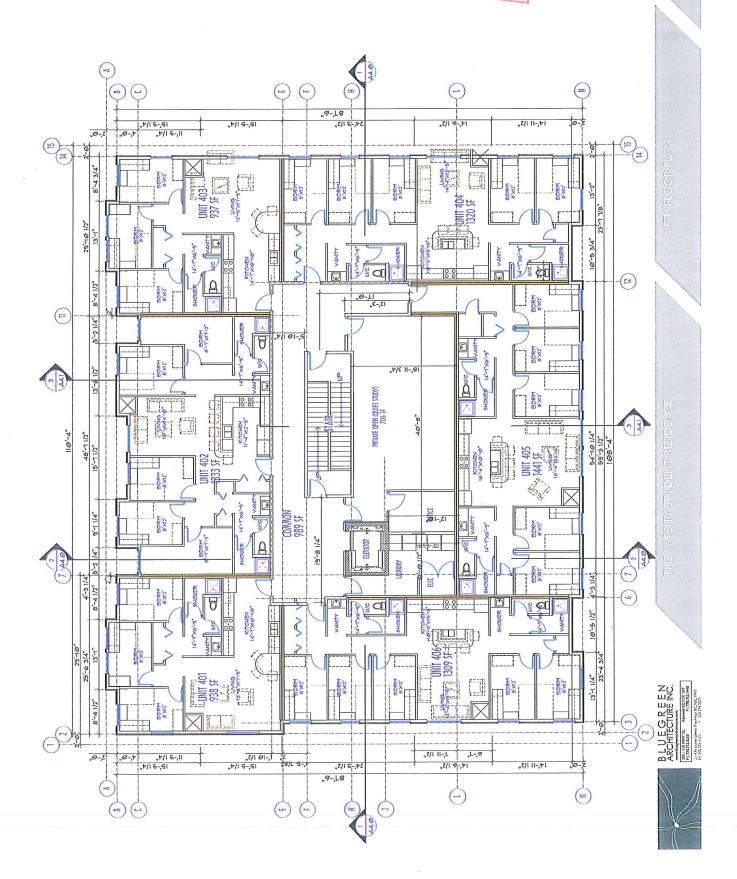
SCHEDULE
This forms part of development
Permit # \(\rho \rho 16 - 0197 \)



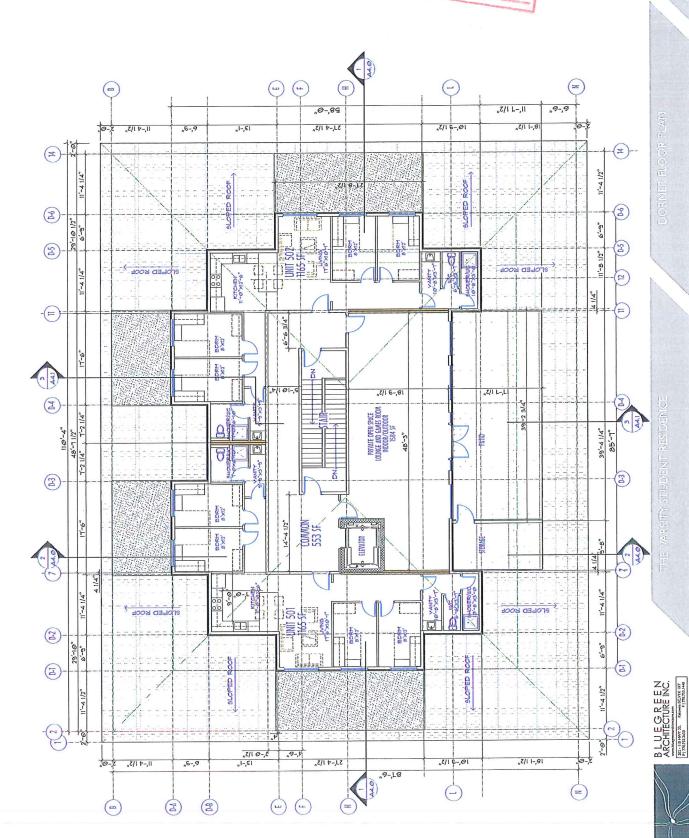




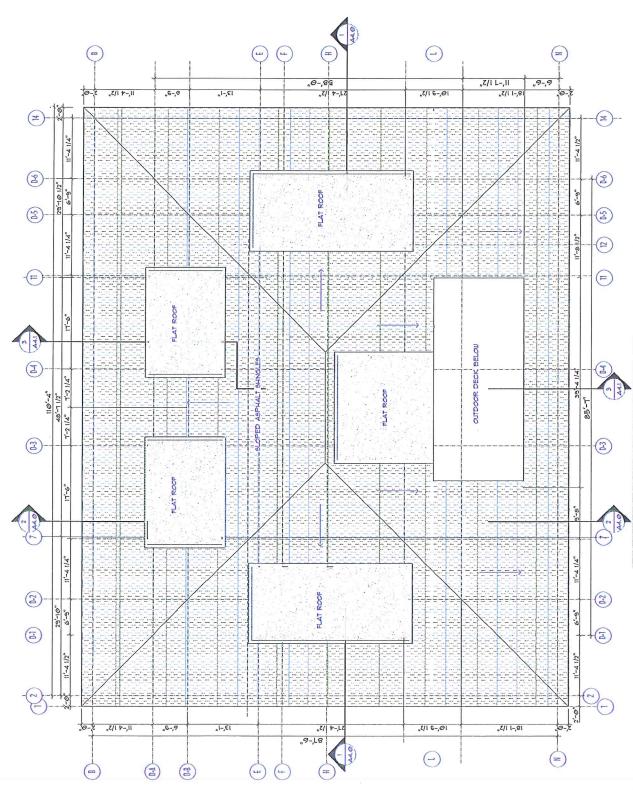




SCHEDULE A
This forms part of development
Permit # DPI5-0197



SCHEDULE A
This forms part of development
Permit # DP15-0197



B L U E G R E E N.

ARCHITECTURE INC.

workburgenerbischeroring

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BUILDING COLORS AND FINISHES KEY IO COLOR B TI PANTED STEEL DOOR S COLOR 5 T PREFNSHED ALLIMAN E PREFNSHED HETAL FL.
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TO GLASS GUARD TO 5' IS ASPHALT SHNGLES | PACE BRICK | 3 STUCCO COLOR | 5 STUCCO COLOR 2 | 4 STUCCO COLOR 2 | 5 STUCCO ACCENT | 5 COLOR 4 COLOR 4 E STUCCO ACCENT T HARDE SIDING COLOR I B HARDE PANEL



NORTH ELEVATION - HIGHWAY 33 WEST



WEST ELEYATION - DUNDAS ROAD





SUMMING LUMID, AND TROUBLE ACT.

SHALE O GLORE 1

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SHULDO GLORE 3

SHULDO ACTOR 4

SHULDO ACTOR

SCHEDULE AB
This forms part of development
Permit # DP15-0197



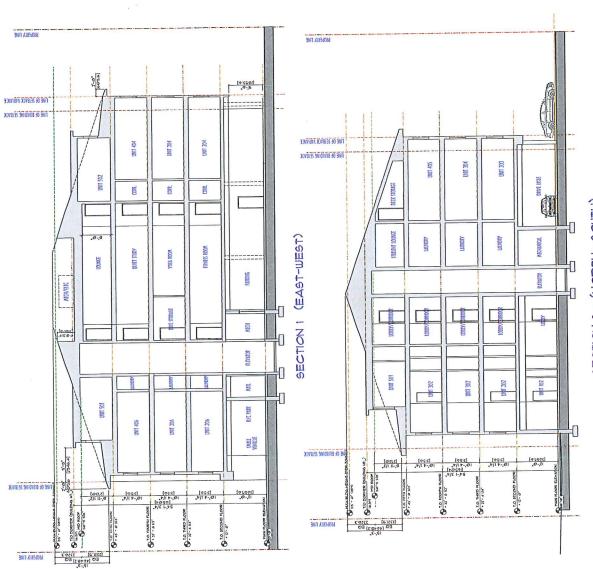




THE VARSITY STUDENT RESIDENCE Kelowin, BC



SCHEDULE B+B
This forms part of development
Permit # 0P15-0177



SECTION 2 - (NORTH- SOUTH)







Date: August 6th, 2015

The Varsity Student Housing Hwy33/Dundas Street Contact: Dave Hallonquist

Exterior Finishing:

Preliminary Colours:

Paint:

- Green: herbal wisdom 1964 General paint (Stucco)
- Terracotta: Brandywine 7710, Sherwin-Williams (Stucco)
- Cream: morrisson 1008 General paint (Hardi Board)
- Tan: Stonebriar 7693 Sherwin-Williams (Stucco)
- Dark Trim: Peppercorn 7674, Sherwin-Williams (Hardi or Stucco)

Brick:

High desert used brick (Cultured stone)

Windows:

Dark Gray Metal

Metal Fascia:

Gentek Iron Ore

Soffits:

Gentek Iron Ore

SCHEDULE_	β
This forms part of d	evelopment 0197
the same of the sa	



December 17, 2015

The VARSITY Student Residence C/o Unico One Developments Ltd. 101-1865 Dilworth Drive Kelowna, BC V1Y 9T1 Attn: David Hallonquist

Re: Proposed Student Residence Development - Preliminary Cost Estimate for Bonding

Dear David:

Please be advised of the following preliminary cost estimate for bonding of the proposed landscape works shown in the VARSITY Student Residence conceptual landscape plan dated 15.08.17;

• 613 square metres (6,598 square feet) of improvements = \$47,153.50

This preliminary cost estimate is inclusive of trees, shrubs, turf, mulch, topsoil & irrigation.

You will be required to submit a performance bond to the City of Kelowna in the amount of 125% of the preliminary cost estimate. Please do not hesitate to contact me with any questions about the landscape plan.

Best regards,

Fiona Barton, MBCSLA, CSLA

as per

Outland Design Landscape Architecture

SCHEDULE C

This forms part of development

it #_0P15-01



206 - 1899 Spall Roda Kabwina, BC VTY AR2 T (250) R08-0270 www.culthridderign.co

HIGHWAY 33

THE VARSITY STUDENT RESIDENCE

CONCEPTUAL
LANDSCAPE PLAN

This forms part of development Permit # 10015-0197 Permit #

-DECIDIOUS SHADE TREE (CLEDITS), TRIACANTHOS 'SKYLINE' - SKYLINE HONEYLOCUST)

-EXISTING CHAINUNK FENCE ALONG EAST PROPERTY LINE

—BUFFER TREE PANTING ALONG EAST PROPERTY UNE (POPULUS TREMULA 'ERECTA' - SWEDISH COLUMNAR ASPEN)

Leaval decidious tree rosque.
(Tilla cordata "Halka" - Summer.
SPRITE (INDEN)
LO9m HT. ORNAMENTAL FENCE

BUILDING

DECORATIVE UNIT PAVING -DECORATIVE CONCRETE PAVING AT ENTRIES

SEAT WALLS

NOTES

-SHRUB, PERENNIAL & ORNAMENTAL GRASS PLANTIN

I. PLANT MATERIAL AND CONSTRUCTION METHODS SHALL MEET OR EXCEED B.C.L.N.A. STANDARDS. 2. ALL SOFT LANDSCAPE AREAS SHALL BE WATERED BY A FULLY AUTOMATIC TIMED UNDERCROUND IRRIGATION SYSTEM.

3. TREE AND SHRUB BEDS TO BE DRESSED IN A MINIMUM 75mm WOOD MUICH, DO NOT PLACE WEED MAT UNDERNEATH TREE AND SHRUB BEDS. 4. TREE AND SHRUB BEDS TO RECEIVE A MINIMUM 300mm DEPTH TOPSO! PLACEMENT.

5. TUBF AREAS FROM SOD SHALL BEND. I CRADE CROWN FROM CERTIFED BEED FMROVED OLITHYASE RECEIPED POS SOB SHALL BE. CAG SHALL BE TOLERANT OF DECLIFICATIONS. A MINIMUM OF TOOM SPIFFL OF WORNEY KEINANT BE RECIURED BEACHTY TOR FACE. TUBF AREAS THAN MEED STRING SHALL MEED STRING CRADES AND MADED SHALL MEED.

PLANT LIST

2

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CARBAGE/ RECYCLING ENCLOSURE

BOTANICAL NAME

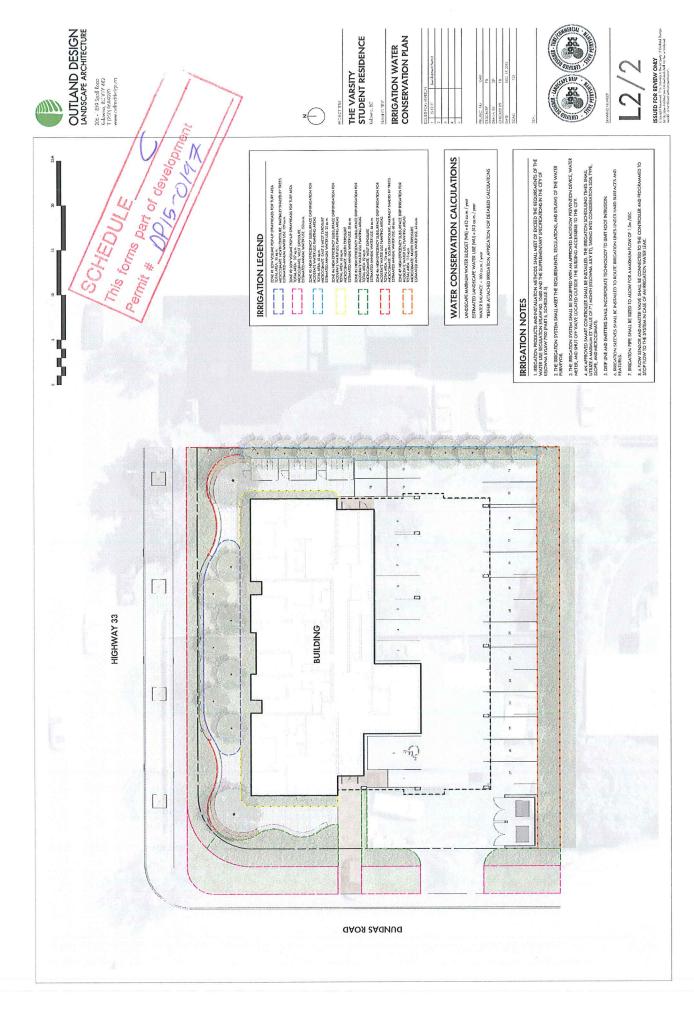
OTY SIZE / SPACING & REMARKS TREES CLEDITSIA TRIACANTHOS 'SKYLINE POPULUS TREMULA 'ERECTA' TILIA CORDATA 'HALKA'

STRUEN, ROUSENIALS E CAACSES ACRESS ACRES ACRESS ACRES ACRESS ACRES ACRESS ACRESS ACRESS ACRESS ACRESS ACRESS ACRESS ACRESS ACRE

ISSUED FOR REVIEW ONLY Capargla Fearward. The arthur in the praper for the caparage of the proper receld, or bandsood websort parameters.

DUNDAS ROAD

· P





1435 Water Street Kelowna, BC V1Y 1J4 250 469-8500 kelowna.ca

IRRIGATION APPLICATION

APPLICATION IDENTIFICATION

	Unico One Developments Ltd.	Subject Address: 125 Dundas Road / 815 Hwy 33 W, Kelowna, BC			
	Steve Petryshyn	Telephone 250-868-9270			
	Certified Irrigation Designer	Fax No:			
	Outland Design Landscape Architecture	Email: steve@outlanddesign.ca			
City	Kelowna, BC	Mailing Address: 206-1889 Spall Road, Kelowna			
		Province BC Postal Code: V1Y 4R2			
LANDSCAPE	WATER CONSERVATION CHECKL	_IST			
Note: all boxes are	e to be checked - see instruction page				
✓	Install Backflow prevention devices to meet Ci potable water system.	ty of Kelowna standards to isolate the outdoor irrigation system from the			
~	Group planting into 'hydrozones' of high, medium and low water-use plants or unirrigated/unwatered areas.				
V	Minimize mown turf areas that are high water use areas - ideally to 50% of the landscape area or less - substitute with areas of lower water use treatments like unwatered native woods or meadow, mulch, spaced wood deck, pervious paving.				
	Povide adequate topsoil or growing medium of depth and quality to meet the BC Landscape Standard, published by the BC Society of Landscape Architects and the BC Landscape and Nursery Association. General minimum depths over poor subsoils are 150mm for lawn and 300mm for shrubs groundcover.				
7	Group irrigation circuits/zones into 'hydrozones' of high, medium, and low or unirrigated areas consistent with the landscape planting plan. Provide a separate irrigation valve for each irrigated hydrozone.				
V	Minimize use of high-volume spray heads, and employ drip or low volume irrigation where practical.				
√	When spray or rotor irrigation is used, design and install head to head coverage in accordance with manufacturer's specifications, and avoid overspray outside landscape areas.				
√	Ensure matched precipitation rates within all i	rrigation circuits.			
7	Design and install pipe and head layout so flow pressure variation in circuits. Provide check va	velocity does not exceed 1.5 m/s, and to minimize elevation change or lves to stop low head drainage.			
√	Ensure irrigation mainlines are proved leak-free	e with hydrostatic tests.			
√	Provide pressure regulating devices to ensure i range.	rrigation outlets are operating at the manufacturer's optimum pressure			
√	Install - and program to minimize water use - 'Regulation Bylaw.	Smart Controllers' to meet standards of the City of Kelowna Water			
7		tion valve) located outside the building in a location accessible to the City r from the potable water supply to the outdoor irrigation system and shall be City.			
Applicant Notes on	the Landscape Water Conservation Checklist:				

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Permit # DP15 - 019 7



1435 Water Street Kelowna, BC V1Y 1J4 250 469-8500 kelowna.ca

IRRIGATION APPLICATION

LANDSCAPE WATER CONSERVATION TABLE

Applicant: Unico One Developments Ltd.

Address: 125 Dundas Road / 815 Hwy 33 W, Kelowna, BC

Step 1: Measure Total Landscape Area (LA)

Area of site that will absorb water:

unless pervious.

621 sq.r

Note: INCLUDE BOULEVARD, and proposed lawn, plants, mulch, PERVIOUS decks or paving. Do not include building areas, driveways, patios, decks or walks

Step 2: Divide Into Landscape	e Treatments*	Plant Factor	Irrig Efficiency	Hydrozone Area	% of Total LA	Estimated Water
Note: each of the areas below are a 'HYD		(PF)	(IE)	(HA)		(WU)
Unwatered Pervious Areas (r	ot impervious pavir	ng)				
Mulch (Stone, bark or sand)	, , , , , , , , , , , , , , , , , , ,	N/A	N/A		0%	N/A
Pervious deck (Spaced wood deck)		N/A	N/A		0%	N/A
Pervious paving (AquaPave, Rima Pa	ve)	N/A	N/A		0%	N/A
Naturalized meadow (wildflowers)		N/A	N/A		0%	N/A
Naturalized area (Existing natural ar	ea)	N/A	N/A		0%	N/A
Other:		N/A	N/A		0%	N/A
Swimming or ornamental pool		1	1		0%	0
Watered Planting Beds (shru	hs or groundcover)					
Planting Type	Irrig Efficiency					
Low water use plants	High (Drip or Bubbler)	0.3	0.9		0%	0
Low water use plants	Low (Spray orRotor)	0.3	0.7		0%	0
Moderate water use plants	High (Drip or Bubbler)	0.5	0.9	416	67%	231
Moderate water use plants	Low (Spray orRotor)	0.5	0.7		0%	0
High water use plants	High (Drip or Bubbler)	0.7	0.9		0%	0
High water use plants	Low (Spray orRotor)	0.7	0.7		0%	0
Watered Mown Lawn Areas	Low	1	0.7	197	32%	281
Special Landscape Areas (SLA	A)					
Vegetable Garden	High (Drip or Bubbler)	1	0.9		0%	0
Vegetable Garden	Low (Spray orRotor)	1	0.7		0%	0
Sports Lawn	Low (Spray orRotor)	1	0.7		0%	0
Rainwater or Recycled Water Use		0.3	1		0%	0
Totals				613	99%	513
Special Landscape Area (SLA) Sub to	tal			013	1	1 3,0

*If proposed design conditions are not shown on the form please contact the City at 250 469-8502

This forms part of development
Permit # 0915 - 0197

Page 2 of 3



1435 Water Street Kelowna, BC V1Y 1J4 250 469-8500 kelowna.ca

IRRIGATION APPLICATION

CALCULATE & COMPARE WATER BUDGET TO ESTIMATED WATER USE

Note: For Evapotranspiration (ETo) in Kelowna use 10	000m Amount	Units	
Total Landscape Area	613	sq.m.	
Landscape Maximum Water Budget (WB) Estimated Landscape Water Use (WU)	613 513	cu.m./yr. cu.m./yr.	
Under (-OVER) Budget (Must be under Water Budget WB)	100 ок	cu.m./yr.	
I have identified and confirmed, by completing the attachewill conform to current landscape and irrigation water con	servation practices l	isted in the checklist. I also acknowl	edge that the
landscape treatments of the project will conform to the H Calculation Table' above.	ydrozone areas ident	ified by me in the 'Landscape Wate	r Conservation
Signature of Applicant		Date:	
orginature of Applicant			
FOR CITY OF KELOWNA OFFICE USE ONLY			
The Irrigation Application and calculations above satisfy th 4.4.3.and is hereby APPROVED with the signature of the W			ction 4.4.2 and
Signature of Kelowna Water Smart designate For Water Manager		Date:	
or macer manager	SCHEDUL	E C	
Print Name	Permit #	E C t of development 25-0197	

NOTE: Post Signed and approved application at Smart Controller for future reference