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### **Project Information**

#### **Civic Address**

6038 Birney Avenue, Vancouver, BC

Wesbrook Village, University of British Columbia

### **Legal Description**

Lot 4 District Lot 6494 Group 1

New Westminster District, Plan EPP29484

#### Parcel Identifier (PID)

029-436-681

#### **Total Site Area**

41,457 SF / 3,851 SqM

### **Development Area**

SC2A Medium Density Residential

### **Project Team**

#### Client

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### **Project Overview**



#### Site + Context

Lot 4 is situated at the center of Wesbrook Place Neighbourhood. The site is bound by a main traffic route to the North - Birney Avenue, two pedestrian mews to the East and West - Shrum Lane and Webber Lane, and a pedestrian / cycle path to the South - Scholar's Greenway, overlooking Mundell Park.

### **Proposed Project**

Per the zoning and density allocation within the Wesbrook Place Neighbourhood Plan, the project consists of a 6-storey wood frame structure for faculty and staff rental. The project breaks away from the traditional horseshoe shape to allow variety along Birney Avenue, and porosity through the site, permitting both physical and visual connection from the street and to the park beyond. A generous courtyard is provided with an open outlook pavilion anchoring on the south side, integrated with landscaping forming an animated edge along Scholar's Greenway.

Utilizing the existing grade change, the project provides direct bike and stroller access to the parkade from Scholar's Greenway, as well as a bike repair area. The proposal aims to allocate extra bike storage and reduce car parking on site in supporting UBC's goal of promoting a more sustainable environment for the community.

Residential units within the 6-storey faculty and staff housing offer a mixture of studio, 1-bedroom, 2-bedroom, 3-bedroom and 4-bedroom units. The project provides both indoor and outdoor amenity programs within the ground floor and in the courtyard.





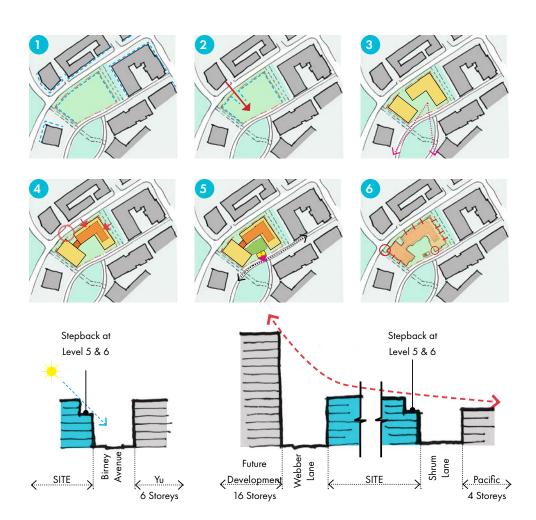


### **Design Rationale & Design Policy Compliance**

### **Neighbourhood Context**

The finer detail and urban design being developed throughout this project is aiming to complement the existing built form, public realm and landscape design in Wesbrook Village.

The project is offering ground-orientated dwelling units throughout the scheme with unique unit addressing and lighting to create a strong identity and presence along Birney Avenue, Webber Lane and Shrum Lane, as well as in the courtyard. Outdoor living spaces associated to these ground-orientated units increase their livability and provide the neighbourhood with increased security through passive surveillance and an active street frontage.



### **Architecture & Materiality**

To give the project a greater relationship to its surroundings, the design uses subtle cues to help shape its massing, orientation, materiality and detailing:

- The project offers a building that both maximizes the allowable density prescribed within the Wesbrook Place Neighbourhood Plan and a reduced mass that aligns with the existing context and urban grain. Stepping back the upper levels, breaking up the mass by notches and articulations are devices used to reduce the perceived size of the overall development.
- The project situates among the center of Wesbrook Village. The two linked buildings pay close attention to the surrounding urban context to enhance the vibrant village feel. The 6-storey west wing respond to the future 16-storey development on the adjacent site to the west. The 6-storey east wing steps back at Level 5 and 6 to create and continue the existing 4-storey street wall along Birney Avenue and Shrum Lane to the east. The stepback also reduces shadow impact on the existing 6-storey development along Birney Avenue and the 4-storey on Shrum Lane.
- Utilizing the special location in between the urban streets and park/ greenway, the opening created by the two linked masses allow variety along Birney Avenue, and porosity through the site, permitting both physical and visual connection from the street and to the park beyond. The layout aimed to maximize the number of ground related units along Birney Avenue, Webber Lane and Shrum Lane; whilst opening up the south edge to increase solar exposure in the courtyard and as well as providing views to the greenway and park beyond.
- The continuation of a simple, contextual material palette offers honest west coast textures and colours. The project utilizes three key contrasting tones to help highlight the breakdown of building mass:
  - White paneling is used as the main façade material to lighten up the mass (used on the lower level on the east wing, and a portion of the west wing);
  - Grey panel siding ties the building together (used on the receding upper levels on the east wing, the linking bridge, and part of the west wing);
  - Warm tones of wood accent siding is used to add interest to the recessed balconies and create focal points (entrance lobby, courtyard lookout, etc.)

### **Amenity**

The development is providing an active and expansive amenity area adjoining interior spaces and outdoor spaces via the courtyard. The indoor amenity space is intending to be a bright and vibrant multi-use space for residents to both work and socialize, with a focus on encouraging a sense of community amongst all residents. A guest suite is also provided as a popular demand from UBCPT's previous rental developments.

The indoor amenity space is adjacent to an outdoor amenity area within the central courtyard, further encouraging continuous animation and activity of this space. An open pavilion anchoring on the south edge provides pleasant covered resting area overlooking Mundell Park and beyond. Integrated with the landscape, the pavilion separates the semi-private courtyard from the public realm, but at the same time provides an animated edge along Scholar's Greenway.

Utilizing the existing grade change, the project offers direct bike and stroller access to the parkade from Scholar's Greenway to enhance a safe and pleasant environment that separates pedestrian/cyclist from vehicular path. A bike repair area is also provided off Scholar's Greenway to add more variety to the amenity offered on site.

### **Building Performance**

Project Performance Targets: Reap Gold (minimum) + BC Step Code Step 1

The Lot 4 multi-family residential building will serve as a model project for future UBCPT buildings to reach more ambitious energy targets than are currently required. These targets, driven by the BC Energy Step Code, will soon be required of all UBCPT projects via the REAP certification system. The project will target BC Energy Step Code Step 1. This target is equivalent to NECB 2011 requirements, with an additional requirement for air tightness testing. This goal will be an economical introduction to the processes and requirements of the Step Code, and serve as an example for future UBCPT projects. In addition to energy, site design will provide outdoor amenity spaces and enhanced bike facilities (changing rooms, showers, repair workshop, additional parking) to encourage a healthy campus lifestyle and connection to the outdoors.









### **Project Statistics**

SITE INFORMATION CIVIC ADDRESS

6038 BIRNEY AVENUE, VANCOUVER, BC

LEGAL DESCRIPTION LOT 4 DISTRICT LOT 6494 GROUP 1 NEW WESTMINSTER DISTRICT, PLAN EPP29484

PARCEL IDENTIFIER (PID) 029-436-681

**DEVELOPMENT AREA** SC2A MEDIUM DENSITY RESIDENTIAL

GROSS SITE AREA 41,457 SF / 3,851 SqM

CETDACK 9	BULL DINC HEICHT INFOR	MATION	
	BUILDING HEIGHT INFOR		
SITE COVERAGE		ALLOWED	PROPOSED
		55% MAXIMUM	53.1%
SETBACKS		ALLOWED	PROPOSED
	NORTH (BIRNEY AVENUE)	8.20 FT / 2.50 m	8.27 FT to 9.25 FT / 2.52 m to 2.82 m
	SOUTH (SCHOLAR'S GREENWAY)	8.20 FT / 2.50 m	9.12 FT to 15.68 FT / 2.78 m to 4.78 m
	WEST (WEBBER LANE)	8.20 FT / 2.50 m	8.20 FT to 8.58 FT / 2.50 m to 2.62 m
	EAST (SHRUM LANE)	8.20 FT / 2.50 m	8.21 FT to 8.75 FT / 2.50 m to 2.67 m
BUILDING HEIGHT		ALLOWED	PROPOSED
		6 STOREYS	6 STOREYS
		75.46 FT / 23.00 m	62.50 FT / 19.05 m TO TOP OF PARAPET, TYPICAL
			64.50 FT / 19.66 m TO TOP OF PARAPET, WEST WING
			70.00 FT / 21.34 m TO TOP OF ELEVATOR OVERRUN
-			

PARKING & LOADING CALCULATIONS		
PARKING STALLS PERMITTED:		
FACULTY AND STAFF RENTAL (NON-MARKET HOUSING)	136 STALLS	1.0 STALL PER PRINCIPAL DWELLING UNIT
VISITOR	14 STALLS	0.1 STALL PER PRINCIPAL DWELLING UNIT
TOTAL PARKING SPACES PERMITTED:	150 STALLS	
OF WHICH:		
ACCESSIBLE STALLS	14 STALLS	0.1 STALL PER PRINCIPAL DWELLING UNIT
PARKING STALLS PROVIDED:		
RESIDENTIAL PARKING STALLS	59 STALLS	0.43 STALLS PER PRINCIPAL DWELLING UNIT
VISITOR STALLS	7 STALLS	10% OF TOTAL PROVIDED STALLS
TOTAL PARKING STALLS PROVIDED	66 STALLS	
OF WHICH:		
ACCESSIBLE STALLS	7 STALLS	10.6% OF TOTAL STALLS
SMALL STALLS	16 STALLS	24.2% OF TOTAL STALLS (MAXIMUM 25% ALLOWABLE)
STANDARD	43 STALLS	65.2% OF TOTAL STALLS

BICYCLE STORAGE CALCULATIONS		
BICYCLE SPACES REQUIRED:		
FACULTY AND STAFF RENTAL (NON-MARKET HOUSING) CLASS II (Or:	204 CLASS I STALLS 63 CLASS II STALLS 4 x 16-SPACE BICYCLE RACKS)	1.50 SPACES PER DWELLING 16 STALLS PER 35 DWELLING UNITS (1 x 16-SPACE RACK PER 35 UNITS)
BICYCLE SPACES PROVIDED:		
TOTAL CLASS I BIKE STALLS	448 CLASS I STALLS	3.29 SPACES PER DWELLING
OF WHICH:		
HORIZONTAL BIKE STORAGE	314 CLASS I STALLS	
VERTICAL BIKE STORAGE	134 CLASS I STALLS	29.9% OF TOTAL STALLS
TOTAL CLASS II BIKE STALLS	64 CLASS II STALLS	LOCATED IN THE COURTYARD
OF WHICH:		
	54 STALLS	84.4% LOCATED ON-SITE
	10 STALLS	15.6% LOCATED OFF-SITE (OUTSIDE OF PROPERTY LINE)

STORAGE LOCKER CALCULATIONS						
STORAGE LOCKER REQUIRED BY UBCPT						
FACULTY AND STAFF RENTAL (NON-MARKET HOUSING)	35 LOCKERS	1.00 LOCKER FOR EACH 3 BED, 3 BED+DEN, AND 4 BED DWELLING UNITS				
STORAGE LOCKER PROVIDED						
4' x 6' LOCKERS (TWO HORIZONTAL BIKE STORGAE)	36 LOCKERS					
(EQUIVALENT OF	72 HORIZONTAL BIKE STORGAE)					

#### EQUESTED VARIANCES

- Reducing the number of vehicle parking stalls required for visitors from 0.1 stall per principal dwelling unit (14 stalls required) down to 10% of total vehicle parking stalls provided (7 stalls) for visitor use. Using recent projects as a precedent, this reduced parking ratio provides a sufficient number of stalls for its intended use within a minimal amount of parkade levels.
- Reducing the number of accessible parking stalls required from 0.1 stall per principal dwelling unit (14 stalls required) down to allocating and sizing 10% of the provided vehicle parking stalls (7 stalls) for accessible use only. Using recent projects as a precedent, this reduced parking ratio provides a sufficient number of stalls for its intended use within a minimal amount of parkade levels.
  - 3 15.6% of Class II bike stalls (10 stalls) are place outside of the property line. These offsite bike stalls are placed near the intersection of Webber Lane and Scholar's Greenway, where such placement provides easy access and better utilization.
- 4 Encroachments into setbacks: Encroachments of architectural details, canopies and balconies are detailed and dimensioned on the submitted floor plans. All habitable space and FSR recorded floor area falls within the setback lines with only some architectural details, canopies and balconies projecting beyond these setback lines. The encroachment ranges between 0.21' (0.06m) to 1.24' (0.38m).

AREA SUMMARY							
TOTAL DECIDENTIAL ADEA	(NOLLIDED EDOM EOD)				400.045.05	,	0.050.0-14
TOTAL RESIDENTIAL AREA	(INCLUDED FROM FSR)				106,045 SF		9,852 SqM
TOTAL INTERIOR CIRCULATION & LOBBY AREA	(INCLUDED FROM FSR)				14,704 SF	1	1,366 SqM
TOTAL SERVICES	(INCLUDED FROM FSR)				810 SF	1	75 SqM
TOTAL AMENITY AREA	(EXCLUDED FROM FSR)				870 SF	1	81 SqM
TOTAL GROSS FLOOR AREA					122,429 SF	1	11,374 SqM
DEDUCT: IN-SUITE UNIT STORAGE	(EXCLUDED FROM FSR)	(MAX. ALLOWABLE	40 SF /	3.72 SqM PER DWELLING UNIT)	5,440 SF	1	505 SqM

SR (FLOOR SPACE RATIO)	ALLOWED	PROPOSED				
	2.80 FSR 116,080 SF / 10,784 SqM	2.80 FSR 116,119 SF / 10,788 SqM				
		*WITH MAXIMUM ALLOWABLE IN-SUITE STORAGE EXCLUSION				
	**FSR = TOTAL GROSS FLOOR AREA					
		UNIT STORAGE				

AMENITY SPACE CALCULATIONS										
AMENITY	ALLOWED				PROPOSED					
	12,243 SF /	1,137 SqM	10%	OF TOTAL GFA	870 SF /	81 SqM	0.71%	OF TOTAL GFA		
	INDOOF					NDOOR AME	NITY & GUEST SUITE			

AREA BRE														
					FSR INCLUSI	ON			FSR EXCLU	SION				
LEVEL	GFA		GFA RESIDENTIAL UNITS CIRCULATION SERVICES			AMENITY		IN-SUITE STORA	AGE	FLOOR AREA COM	TRIBUTE TO FSR			
LEVEL 1	21,362 SF /	1,985 SqM	17,658 SF /	1,640 SqM	2,506 SF /	233 SqM	328 SF /	30 SqM	870 SF /	81 SqM	920 SF /	85 SqM	19,572 SF	1,818 SqM
LEVEL 2	21,993 SF /	2,043 SqM	19,442 SF /	1,806 SqM	2,454 SF /	228 SqM	96 SF /	9 SqM	- /	-	1,000 SF /	93 SqM	20,993 SF	1,950 SqM
LEVEL 3	22,005 SF /	2,044 SqM	19,448 SF /	1,807 SqM	2,460 SF /	229 SqM	96 SF /	9 SqM	- /	-	1,000 SF /	93 SqM	21,005 SF	1,951 SqM
LEVEL 4	22,005 SF /	2,044 SqM	19,448 SF /	1,807 SqM	2,460 SF /	229 SqM	96 SF /	9 SqM	- /	-	1,000 SF /	93 SqM	21,005 SF	1,951 SqM
LEVEL 5	17,554 SF /	1,631 SqM	15,046 SF /	1,398 SqM	2,411 SF /	224 SqM	96 SF /	9 SqM	- /	-	760 SF /	71 SqM	16,794 SF	1,560 SqM
LEVEL 6	17,554 SF /	1,631 SqM	15,046 SF /	1,398 SqM	2,411 SF /	224 SqM	96 SF /	9 SqM	- /	-	760 SF /	71 SqM	16,794 SF	1,560 SqM
TOTAL	122,472 SF /	11,378 SqM	106,088 SF /	9,856 SqM	14,704 SF /	1,366 SqM	810 SF /	75 SqM	870 SF /	81 SqM	5,440 SF /	505 SqM	116,162 SF	10,792 SqM

RESIDENTIA	AL AREA BREAKDO	) W N												
UNIT MIX														
							NUMBER OF UNIT	S PER FLOOR			TOTAL UNITS IN			
UNIT TYPE	UNIT AREA RANGE	AV	G. UNIT SIZ	Æ.	L1	L2	L3	L4	L5	L6	BUILDING	% OF TOTAL	TOTAL AREA	
STUDIO	366 SF - 502 SF	426 SF	1	40 SqM	4	3	3	3	1	1	15	11.0%	6,385 SF /	593 SqM
ONE BED	476 SF - 578 SF	533 SF	1	50 SqM	0	1	1	1	3	3	9	6.6%	4,797 SF /	446 SqM
ONE BED + DEN	552 SF - 700 SF	615 SF	1	57 SqM	5	6	6	6	2	2	27	19.9%	16,592 SF /	1,541 SqM
TWO BED	632 SF - 829 SF	759 SF	1	71 SqM	2	2	2	2	5	5	18	13.2%	13,664 SF /	1,269 SqM
TWO BED + DEN	774 SF - 870 SF	846 SF	1	79 SqM	7	7	7	7	2	2	32	23.5%	27,076 SF /	2,515 SqM
THREE BED	906 SF - 1,020 SF	988 SF	1	92 SqM	2	2	2	2	3	3	14	10.3%	13,828 SF /	1,285 SqM
THREE BED + DEN	1,000 SF - 1,120 SF	1,045 SF	1	97 SqM	2	3	3	3	0	0	11	8.1%	11,491 SF /	1,068 SqM
FOUR BED	1,134 SF - 1,250 SF	1,221 SF	1	113 SqM	1	1	1	1	3	3	10	7.4%	12,212 SF /	1,135 SqM
TOTAL	·				23	25	25	25	19	19	136	100%	106,045 SF /	9,852 SqM

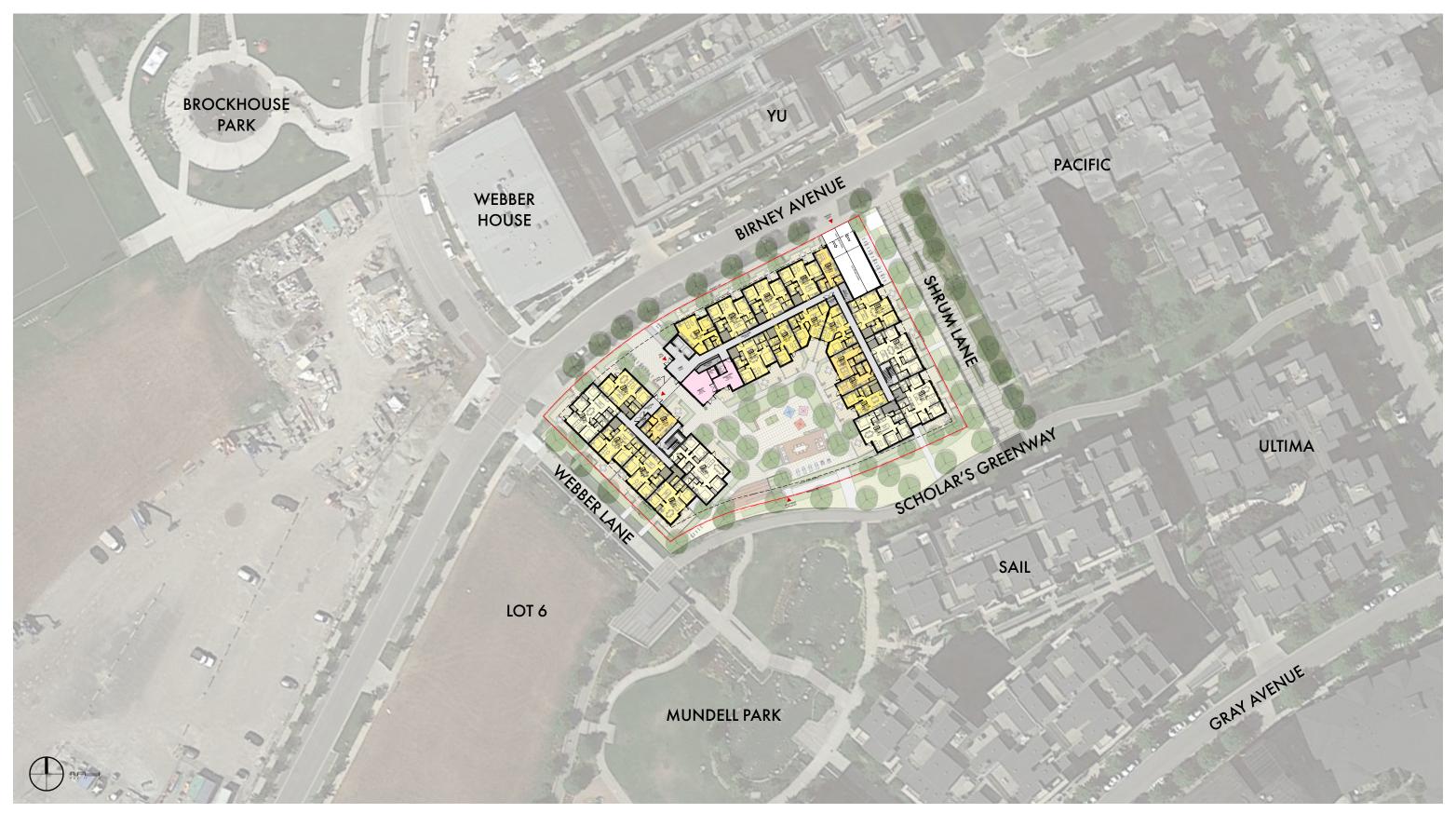








### **Context Plan**

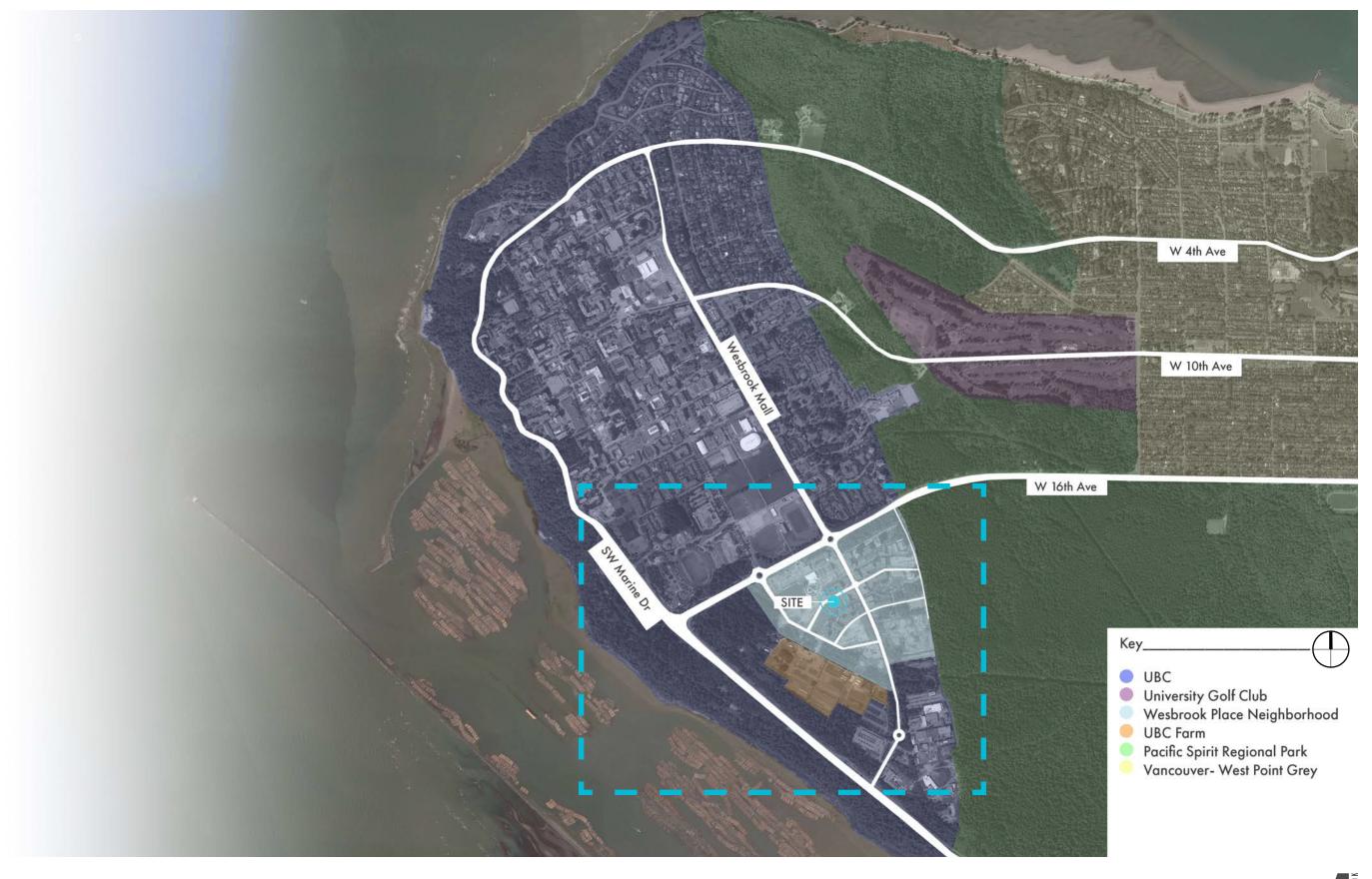








## **UBC Campus Location Plan**



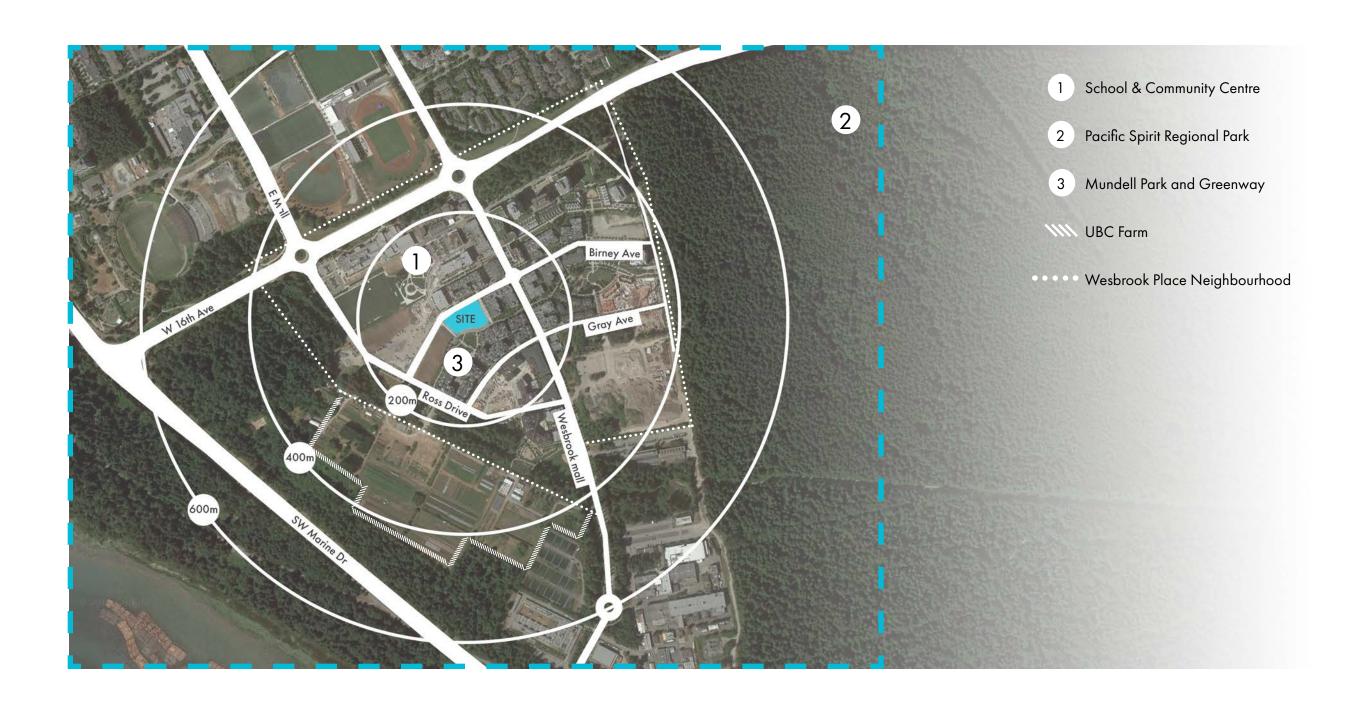
DRAWING NO: 008







# Wesbrook Village Location Plan

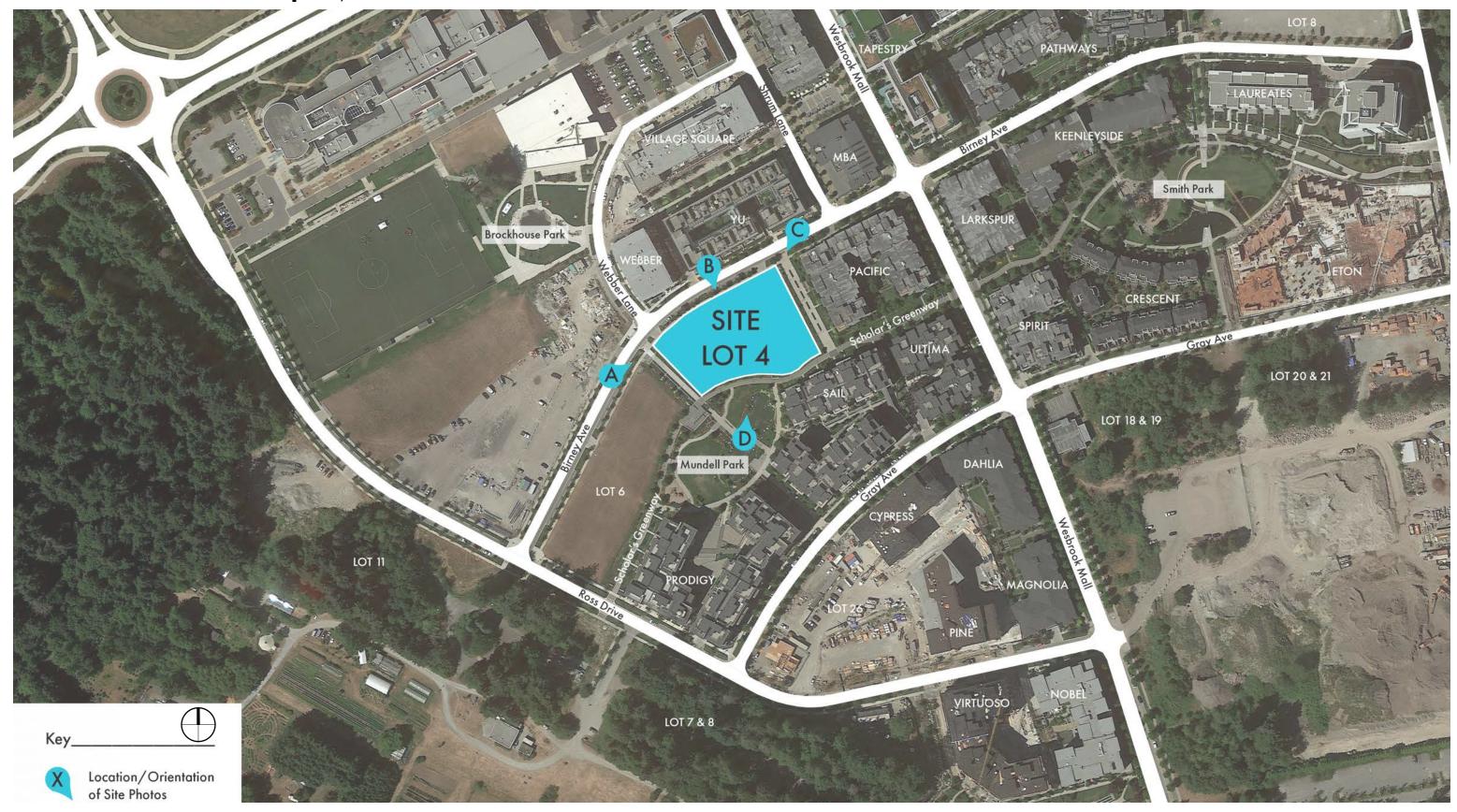








# Site Context + Photos | Key Plan





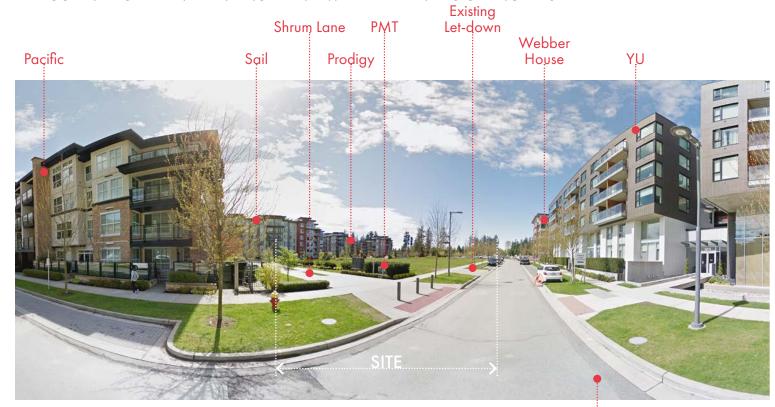




### **Site Context + Photos**



### igwedge CORNER OF BIRNEY AVENUE AND WEBBER LANE LOOKING EAST



CORNER OF BIRNEY AVENUE AND SHRUM LANE LOOKING WEST





Birney Ave

PROJECT NO: V24178



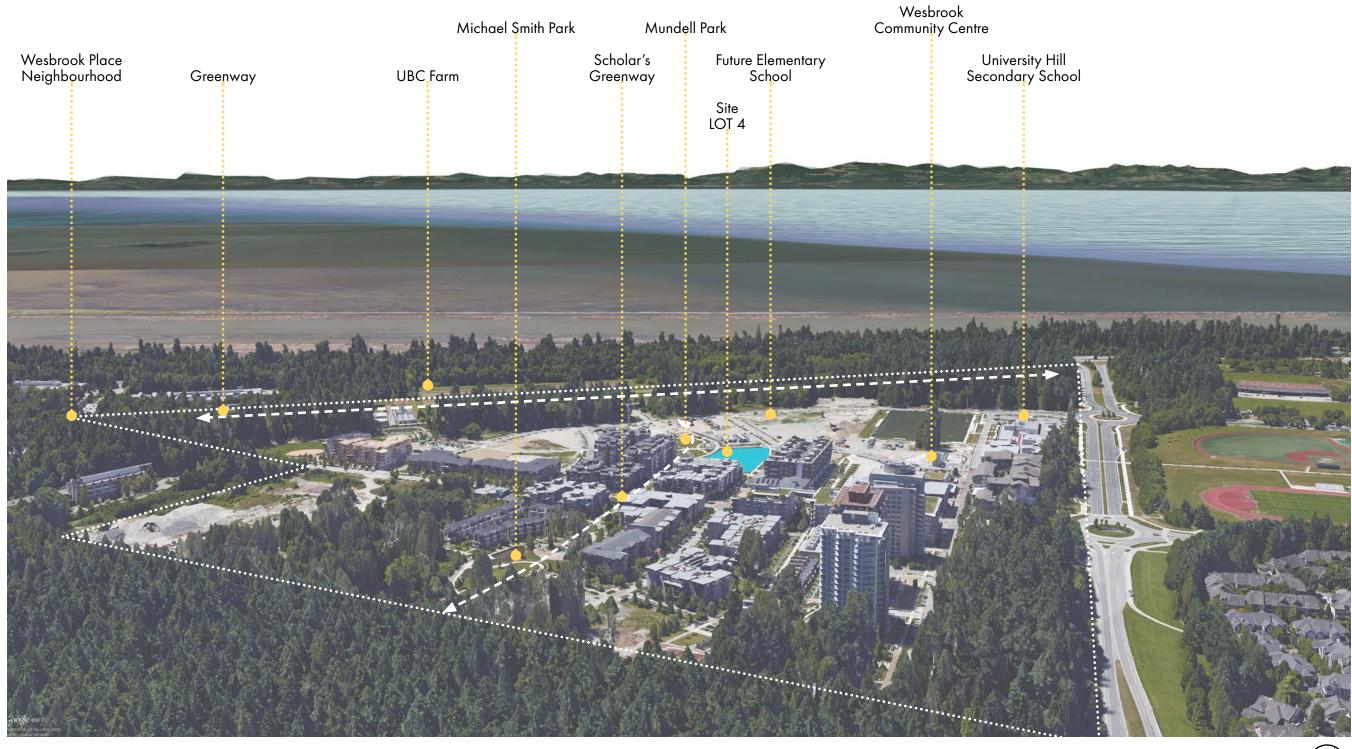
BIRNEY AVENUE LOOKING SOUTH



MUNDELL PARK LOOKING NORTH



## Wesbrook Village | Context Aerial



**VIEW LOOKING WEST** 

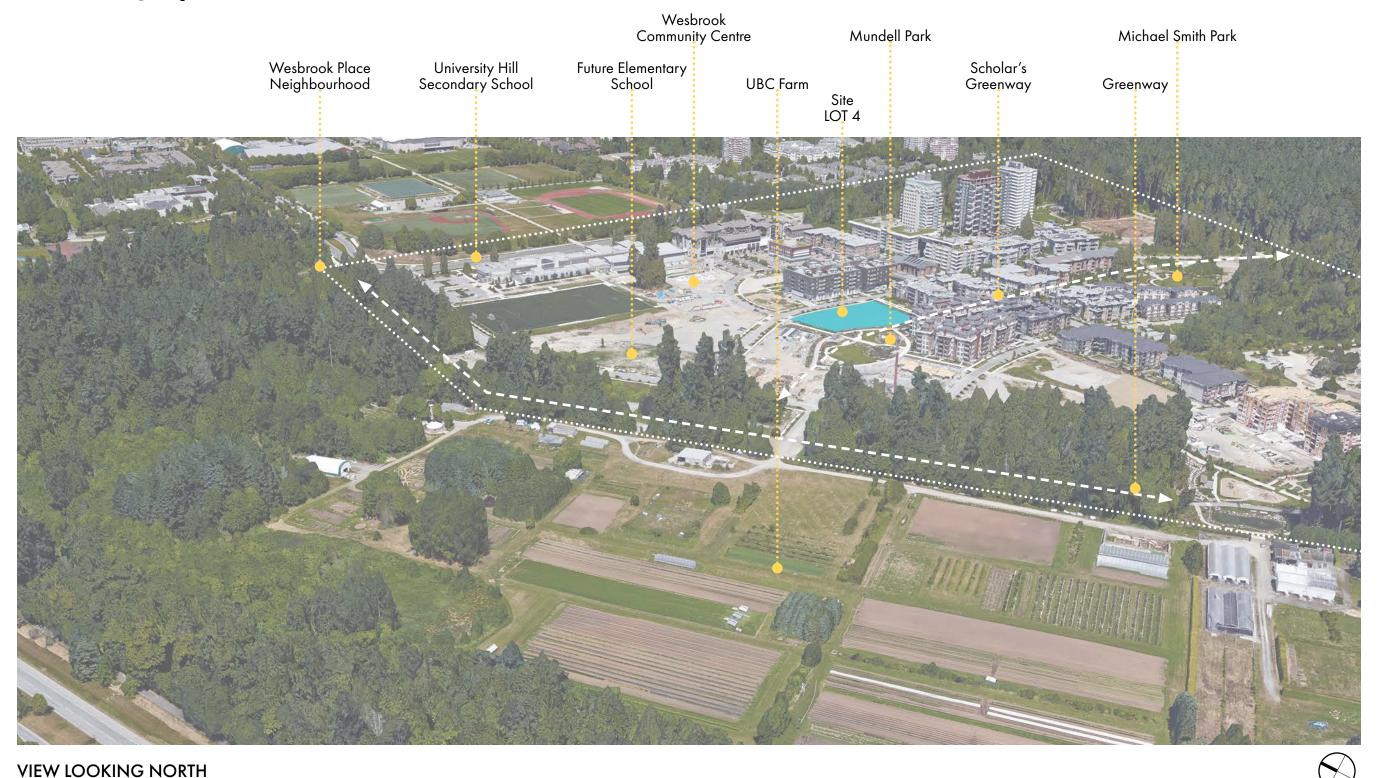








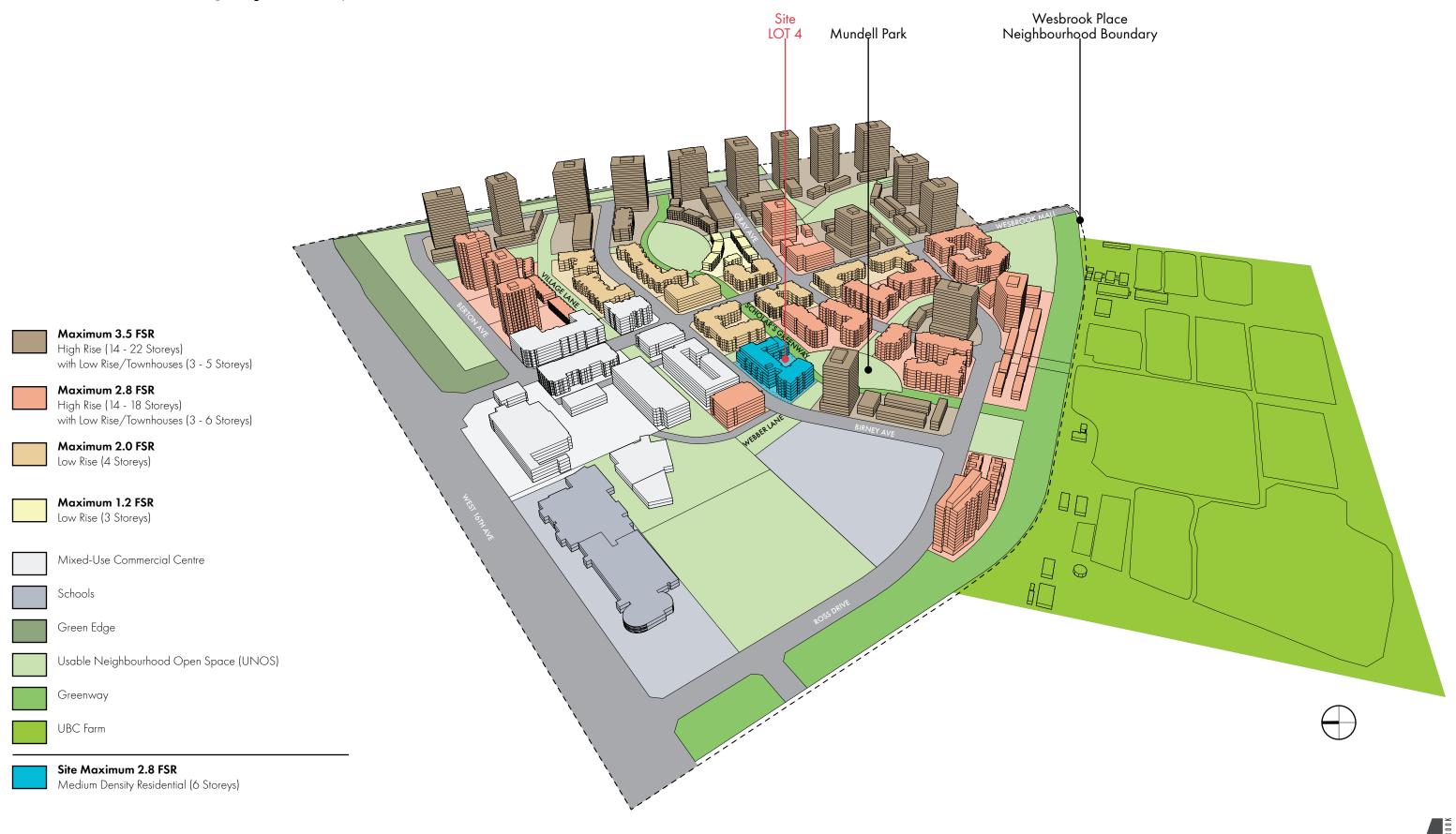
## Wesbrook Village | Context Aerial







## Wesbrook Village | Density Plan



PROJECT NO: V24178

DRAWING NO: 014





P+A

# Wesbrook Village | Development Plan







P+A

PROJECT NO: V24178 DRAWING NO: 015

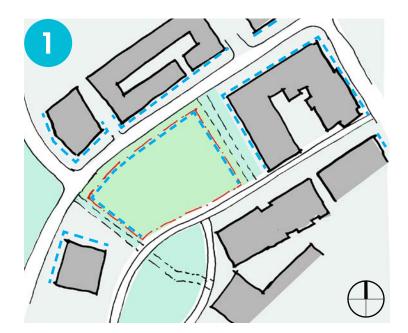
### **Concepts** | Site Strategies

The final concept is expressed as two buildings

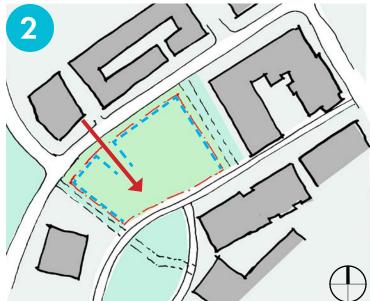
masses connected by an upper level penthouse

bridge pulled back along Birney Avenue. The

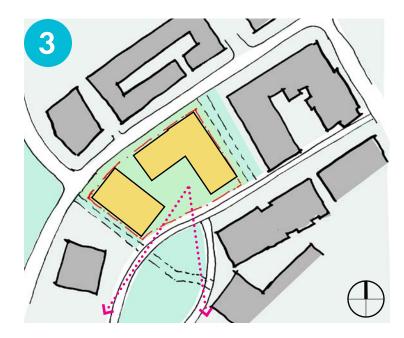
pedestrian experience and neighbourhood scale is



Load site perimeter with buildings to create street wall / urban village feel.

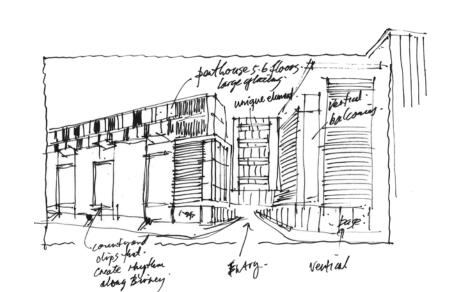


Create visual and physical connection from Birney Avenue to Mundell Park. Public access through Webber Lane and semi-public access through the courtyard.



Maximize the efficiency of the two blocks allowing for views to the park and towards south.

The indent massing over the ground floor opening breaks the continuity of a single facade, adding variety and texture to the streetscape along Birney Avenue.



The following are the design gestures that informed the final proposal.

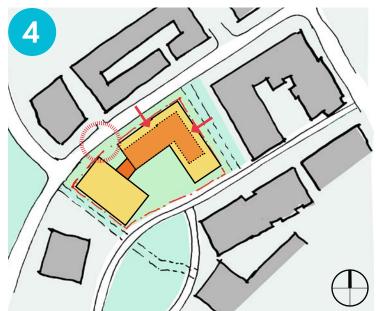
prioritized.





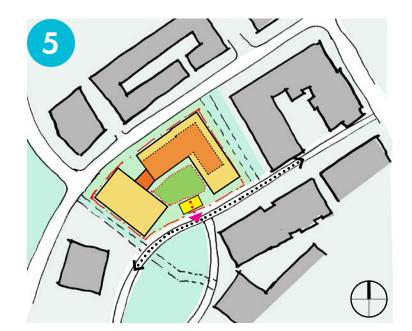


## **Concepts** | Site Strategies



Create a 4-storey street wall by stepping back at Level 5 and 6 to minimize shadow impact and avoid tunnel effect along Birney Avenue. Transition in height from west to east to respond to the building

height differences on adjacent sites. 6-storey massing along Webber Lane facing the 16-storey future development; stepback at Level 5 and 6 along Shrum Lane to create a 4-storey street wall facing the 4-storey Pacific Spirit Residence.



Add multipurpose area to frame the courtyard and allow views to the park.

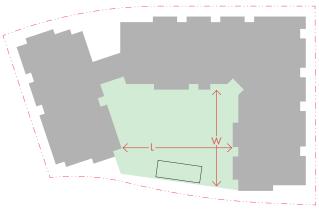
Connection to the bike path system with a direct bike storage entrance to the parkade.

LOT 4 6 Storeys

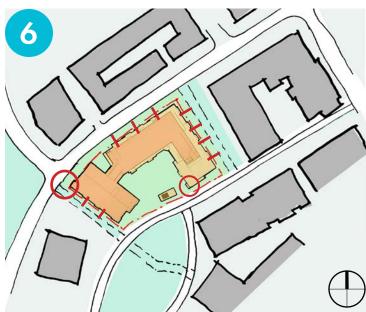
L: 98'-9" (30.1m) **Dimensions** 

W: 90'-0" (27.4m)

Courtyard Area 8,675 SF

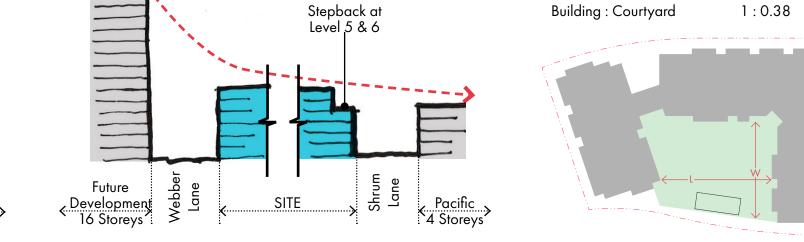


DRAWING NO: 017

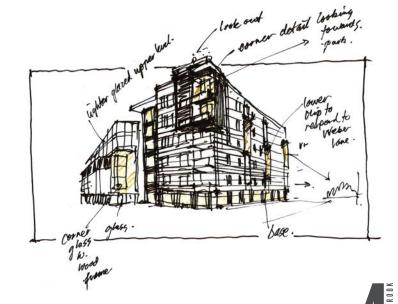


The final concept is expressed as two buildings connected by an upper level penthouse bridge. Pulled back along Birney Avenue, the pedestrian experience and neighbourhood scale is prioritized.

Articulate the facades and openings to create rhythm and sequence around the building to create scale and connect with the neighbourhood.



PROJECT NO: V24178





Stepback at

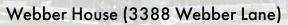
Level 5 & 6





## Wesbrook Village | Courtyard Comparison, Key Plan







Yu (5955 Birney Avenue)

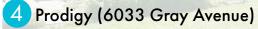


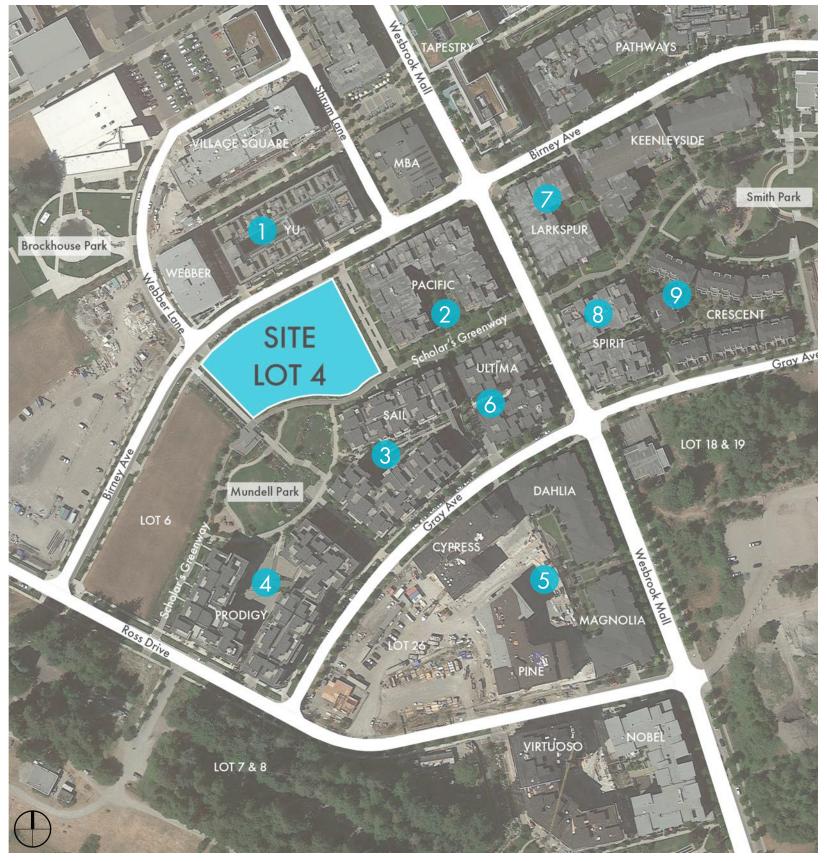
2 Pacific (5928 Birney Avenue)











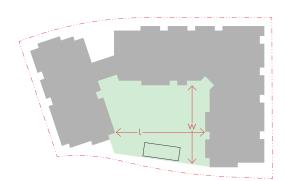






### Wesbrook Village | Courtyard Comparison

One of the key drivers is a courtyard with ample scale and light. The dimension and scale of surrounding building projects with courtyard are looked at closely to better inform the design proposal.



#### **SITE**

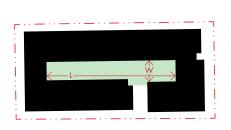
LOT 4 6 Storeys L: 98'-9" (30.1m) **Dimensions** 

W: 90'-0" (27.4m)

W: 26'-3" (8.0m)

8,675 SF Courtyard Area

Building: Courtyard 1:0.38



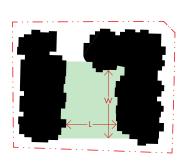


YU 6 Storeys

L: 184'-4" (56.2m) **Dimensions** 

Courtyard Area 4,840 SF

Building: Courtyard 1:0.21



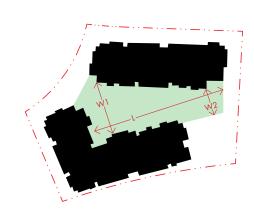
### 2

**PACIFIC** 4 Storeys L: 71'-0" (21.7m) **Dimensions** 

W: 101'-8" (31.0m)

Courtyard Area 7,400 SF

Building: Courtyard 1:0.32





6 Storeys SAIL

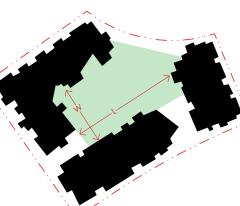
L: 162'-4" (49.5m) **Dimensions** 

W1: 84'-0" (25.6m)

W2: 31'-5" (9.6m)

Courtyard Area 10,300 SF

Building: Courtyard 1:0.41



4

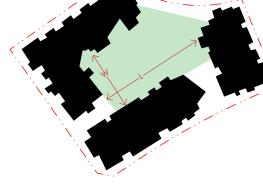
**PRODIGY** 6 Storeys

L: 148'-8" (45.3m) **Dimensions** 

W: 83'-6" (25.5m)

Courtyard Area 13,170 SF

Building : Courtyard 1:0.43



6

**CYPRESS** 6 Storeys

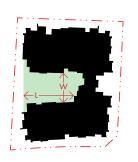
4 Storeys **DAHLIA** 6 Storeys PINE

**MAGNOLIA** 4 Storeys

L: 126'-7" (38.6m) W:259'-2" (79.0m)

Courtyard Area 33,280 SF

Building: Courtyard 1:0.62





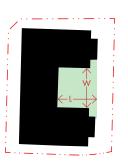
**ULTIMA** 4 Storeys

L: 74'-9" (22.8m) **Dimensions** 

W: 38'-1" (11.6m)

Courtyard Area 3,150 SF

Building: Courtyard 1:0.21



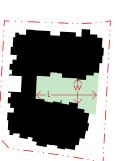
**LARKSPUR HOUSE** 4 Storeys

L: 45'-6" (13.9m) **Dimensions** 

W: 57'-0" (17.4m)

Courtyard Area 2,585 SF

Building: Courtyard 1:0.18





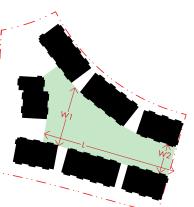
**SPIRIT** 4 Storeys

L: 88'-6" (27.0m) **Dimensions** 

W: 33'-0" (10.0m)

Courtyard Area 3,120 SF

Building: Courtyard 1:0.20





**CRESCENT WEST** 3 Storeys

**Dimensions** L: 181'-4" (55.3m)

W1:90'-10" (27.7m)

W2: 43'-4" (13.2m)

Courtyard Area 12,000 SF

Building: Courtyard 1:0.68







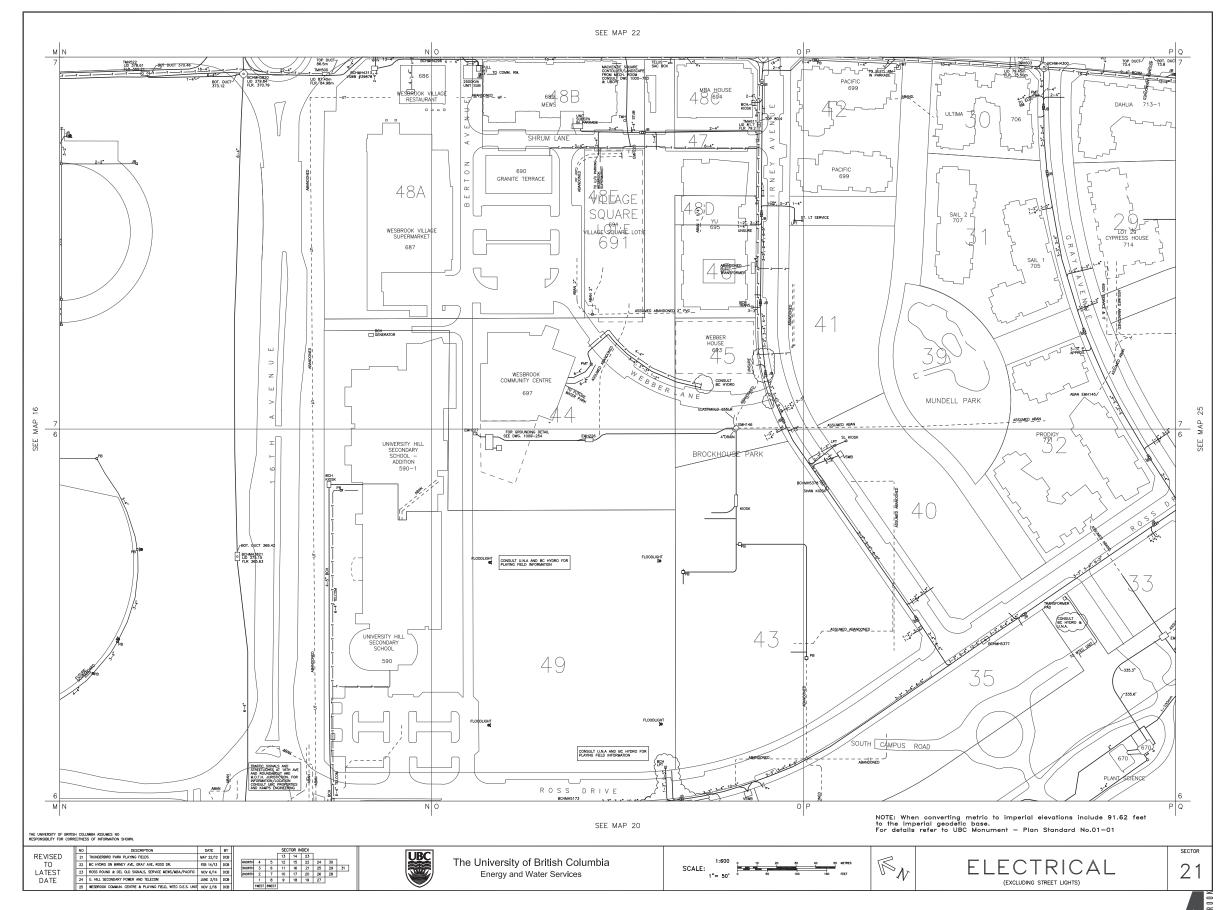




**Dimensions** 



# Utility Plan | Electrical



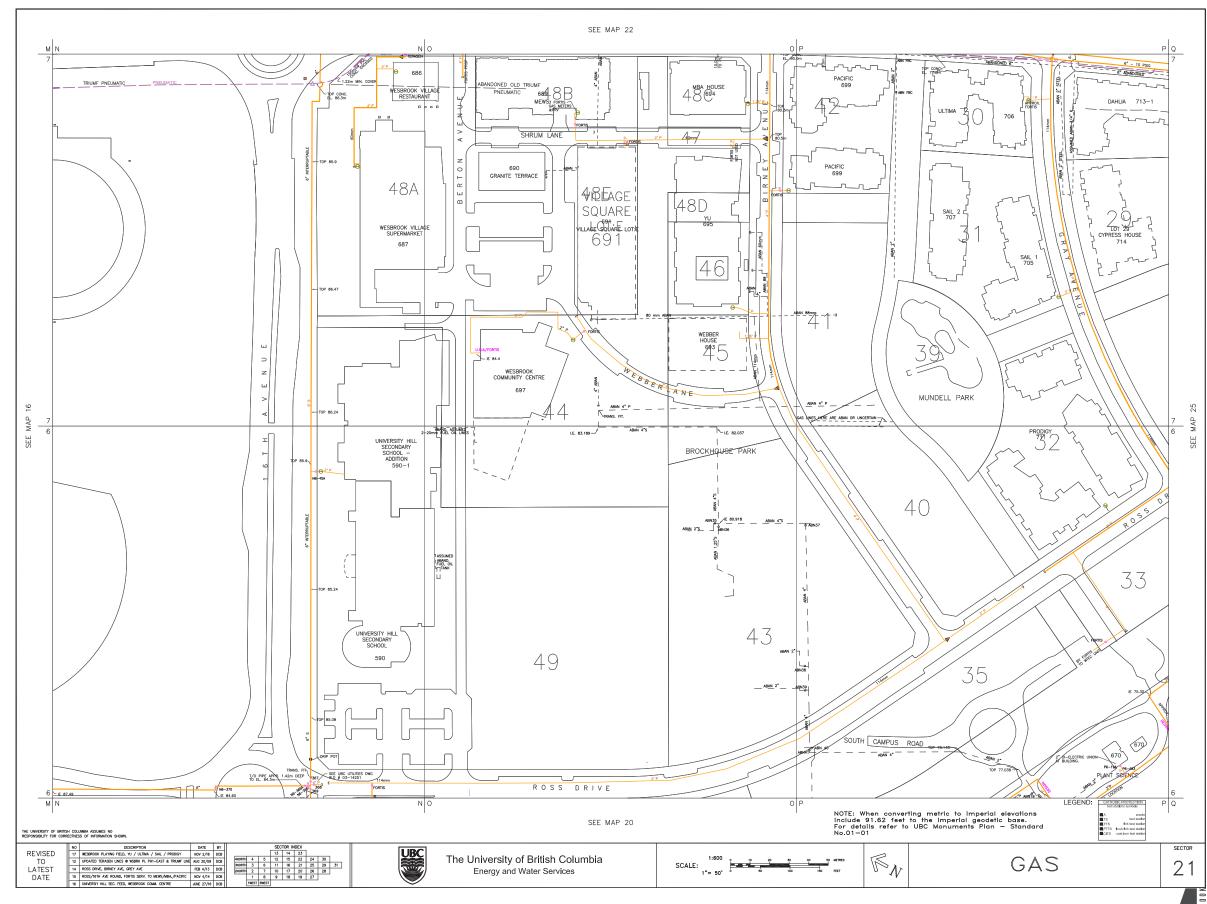






PROJECT NO: V24178

# **Utility Plan** | Gas

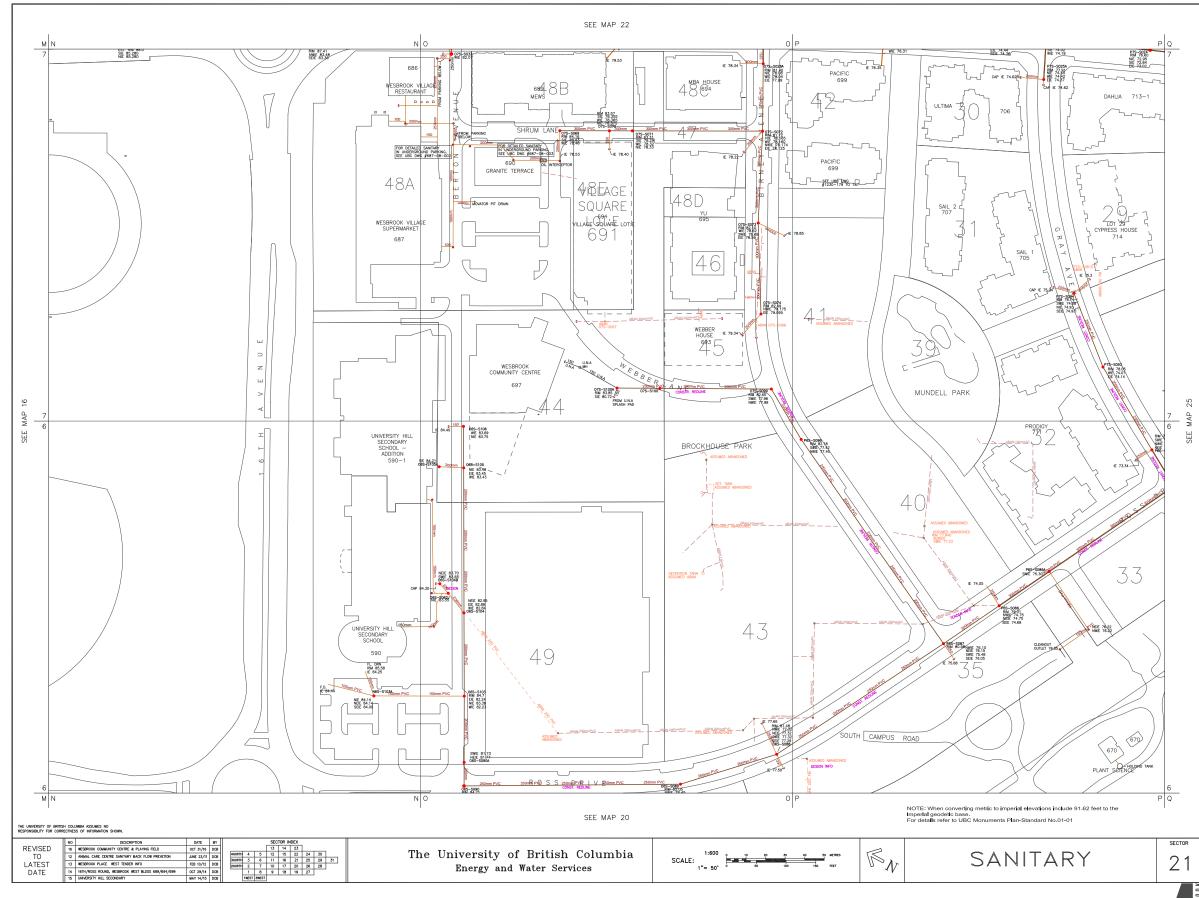








# Utility Plan | Sanitary



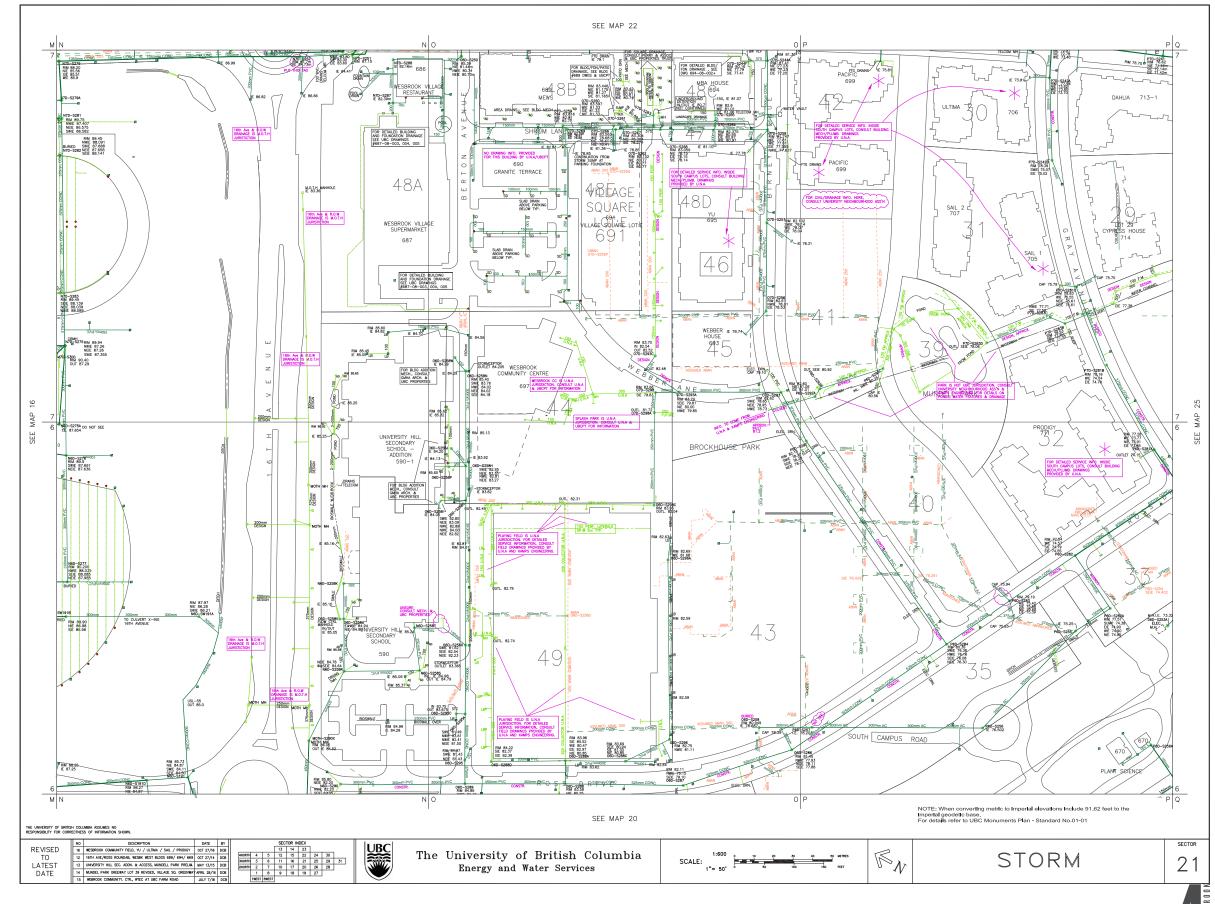






DRAWING NO: 023

# **Utility Plan** | Storm

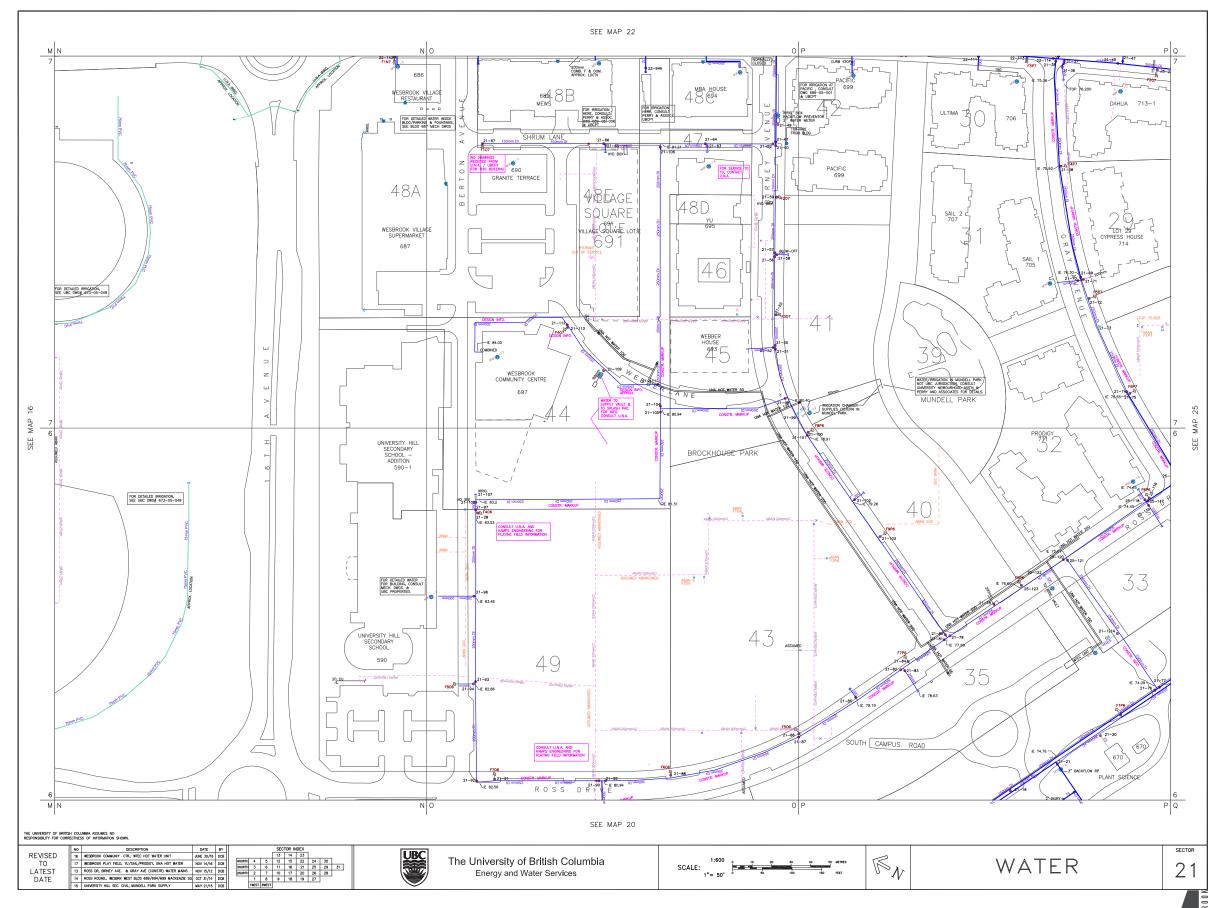








## Utility Plan | Water

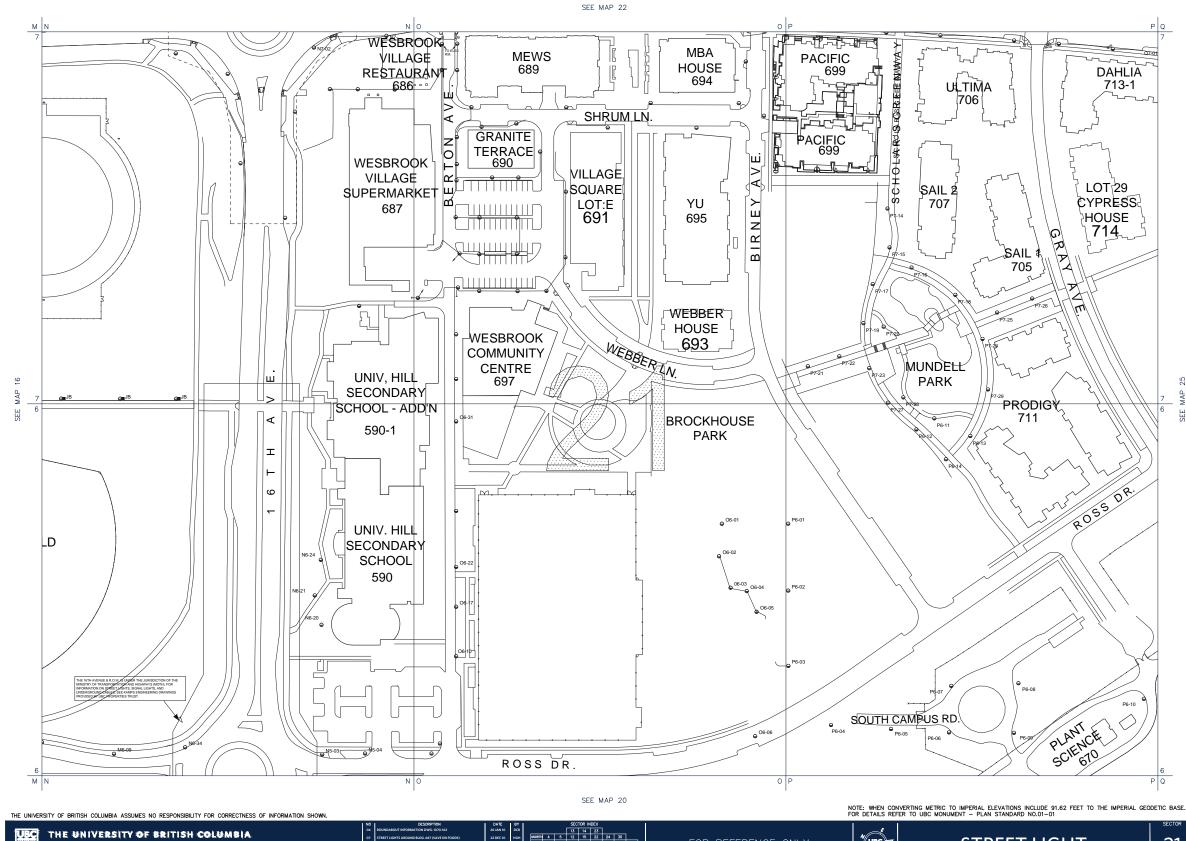








## Utility Plan | Street Light









FOR REFERENCE ONLY

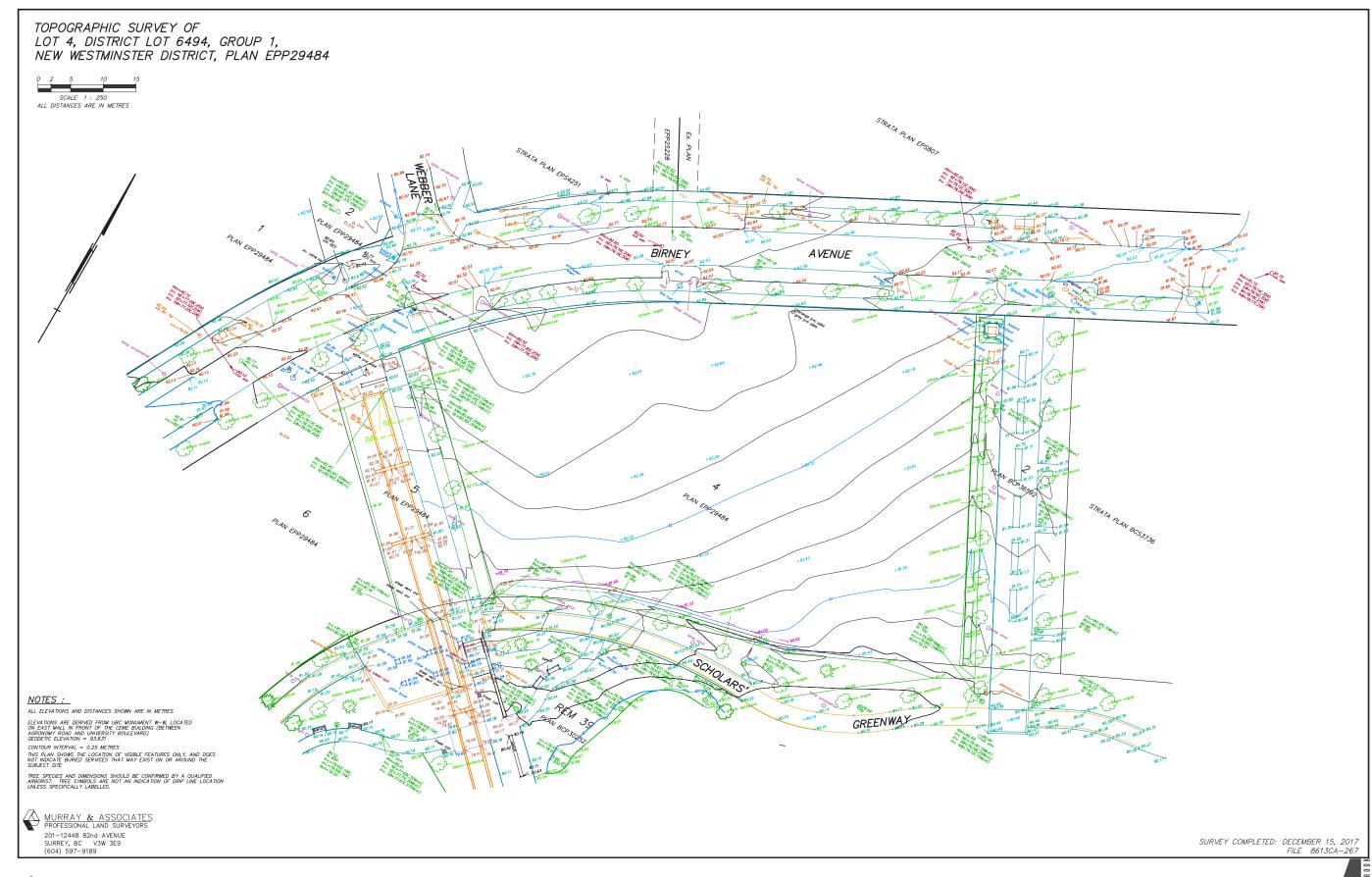


STREET LIGHT

21

Acad 21.0s (LMS Tech) R:\UBC\_Maps\base\streetlight\dwg\street light\-base.dwg (21), Sep 11, 2017 - 8:47am

## **Survey Plan**

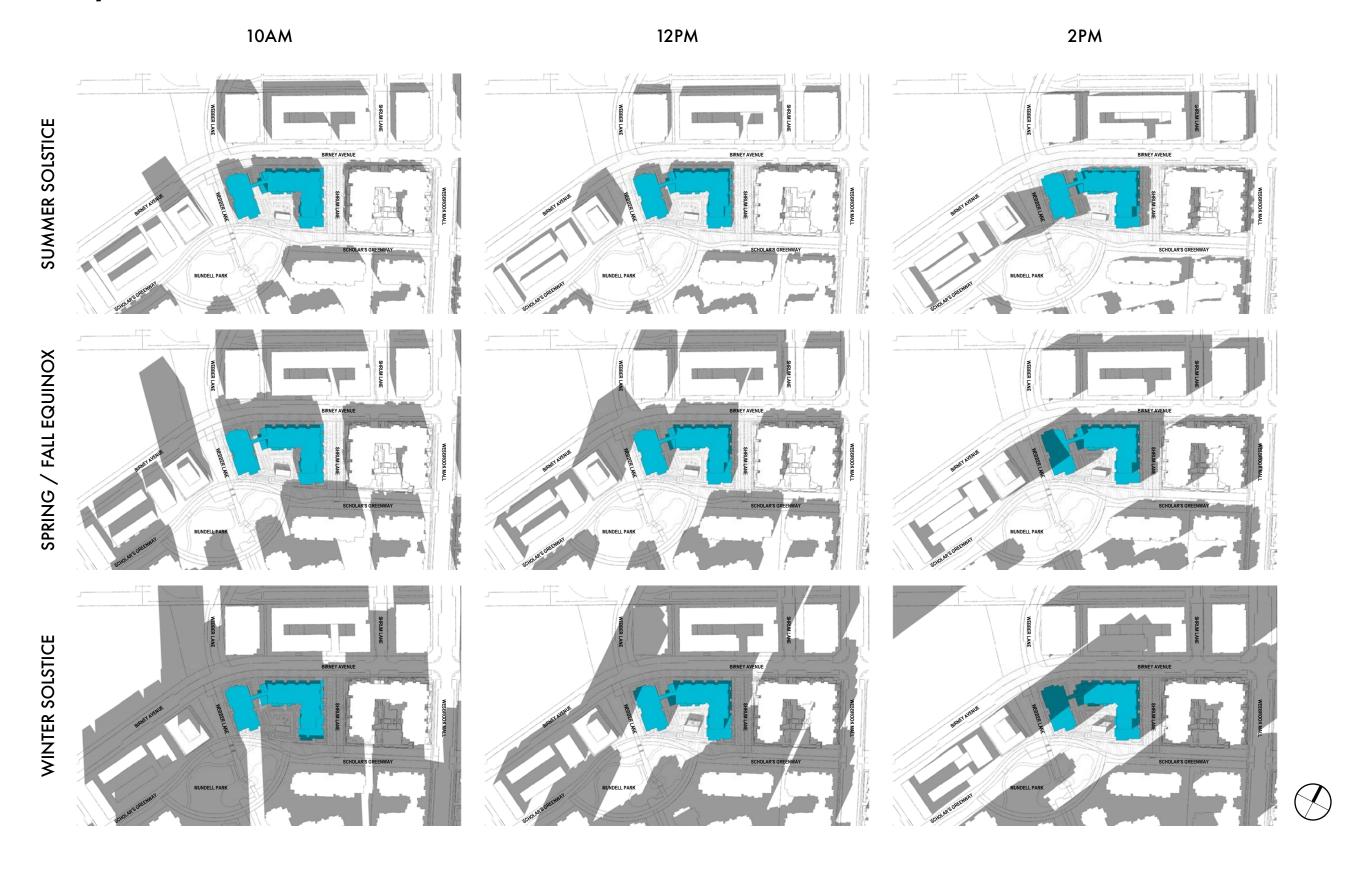








# **Shadow Analysis**

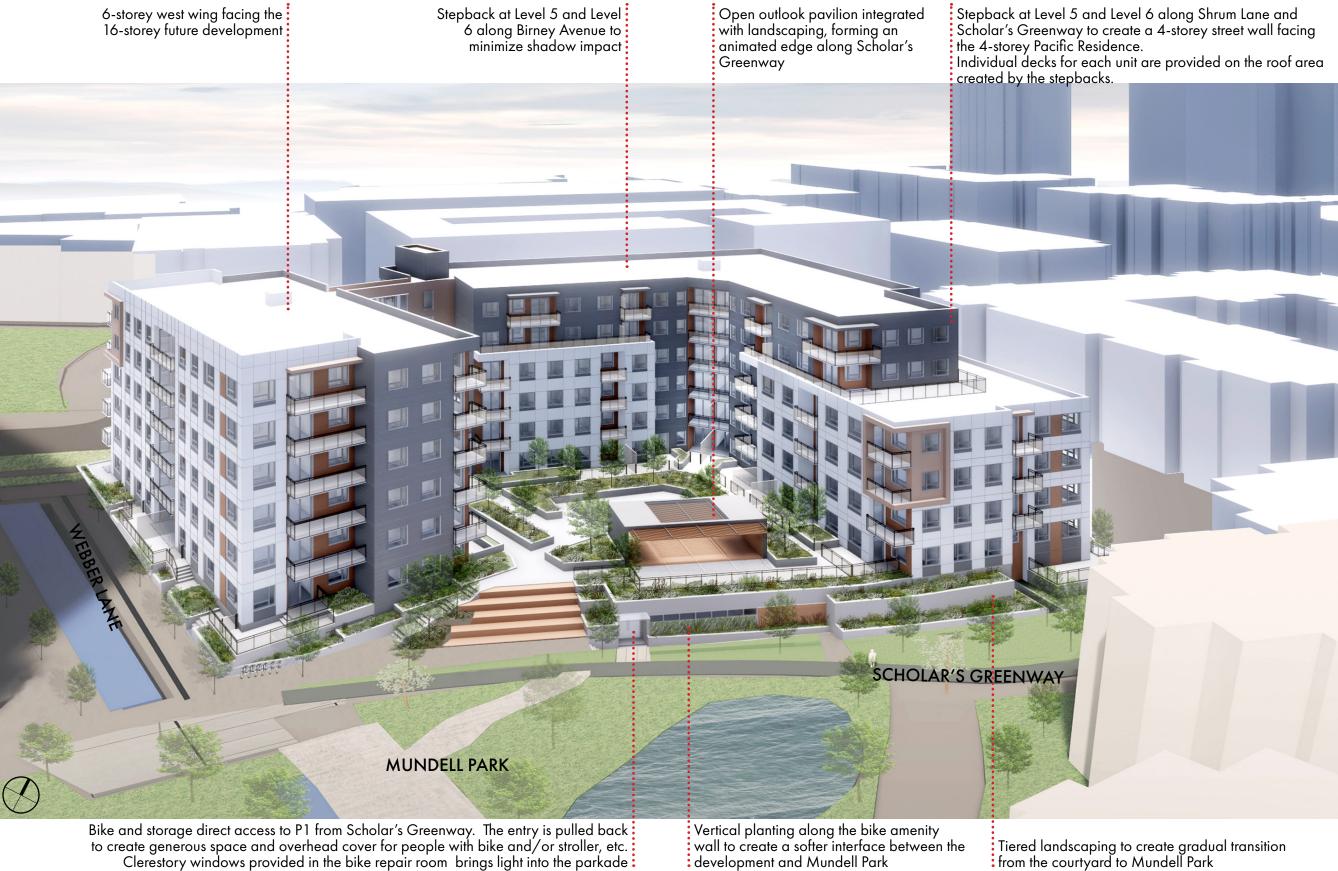








### Perspective View | From Mundell Park Looking North









wall to create a softer interface between the development and Mundell Park

Tiered landscaping to create gradual transition from the courtyard to Mundell Park

## **Perspective View** | From Corner of Birney Ave and Webber Lane

Stepback at Level 5 and Level 6 along Birney Avenue to minimize shadow impact

6-storey west wing facing the 16-storey future development







Pedestrian Access to Courtyard

Building Entry Lobby

## Perspective View | Courtyard Entry Along Birney Ave



PROJECT NO: V24178

DRAWING NO: 031







## **Perspective View** | From Corner of Birney Ave and Shrum Lane

Stepback at Level 5 and Level 6 along Shrum Lane to create a 4-storey street wall facing the 4-storey Pacific Residence Stepback at Level 5 and Level 6 along Birney Avenue to minimize shadow impact









Class II Bike Racks

Existing PMT

Parkade Entry at Existing Let-down

## Perspective View | From Scholar's Greenway Looking East

6-storey west wing facing the 16-storey future development

Tiered seating steps leading up to the courtyard space, creating nice resting area overlooking the park Open outlook pavilion integrated with landscaping, forming an animated edge along Scholar's Greenway





Bike and storage direct access to P1 from Scholar's Greenway.

The entry is pulled back to create generous space and overhead cover for people with bike and/or stroller, etc.

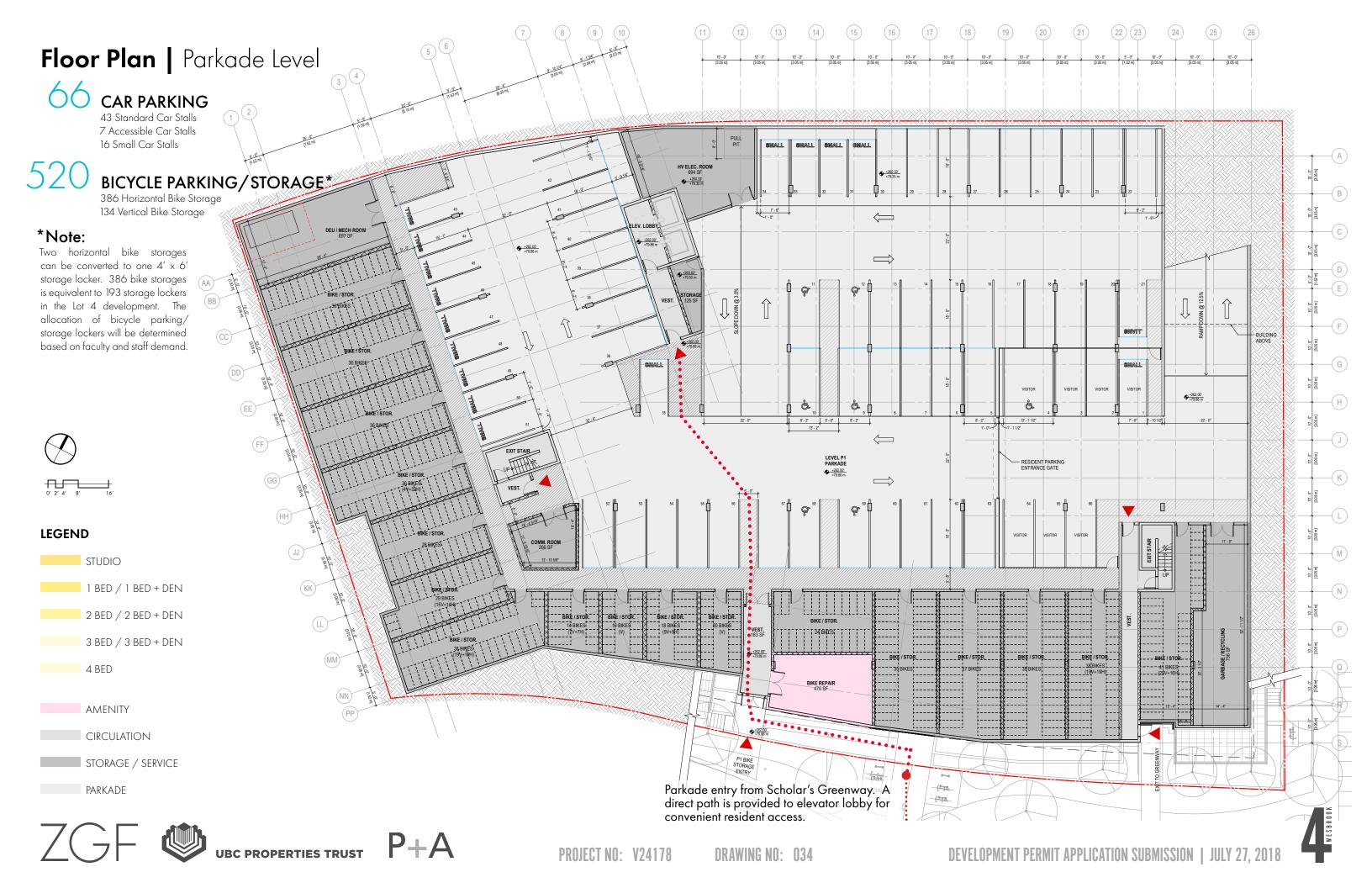
Vertical planting along the bike amenity wall to create a softer interface between the development and Mundell Park

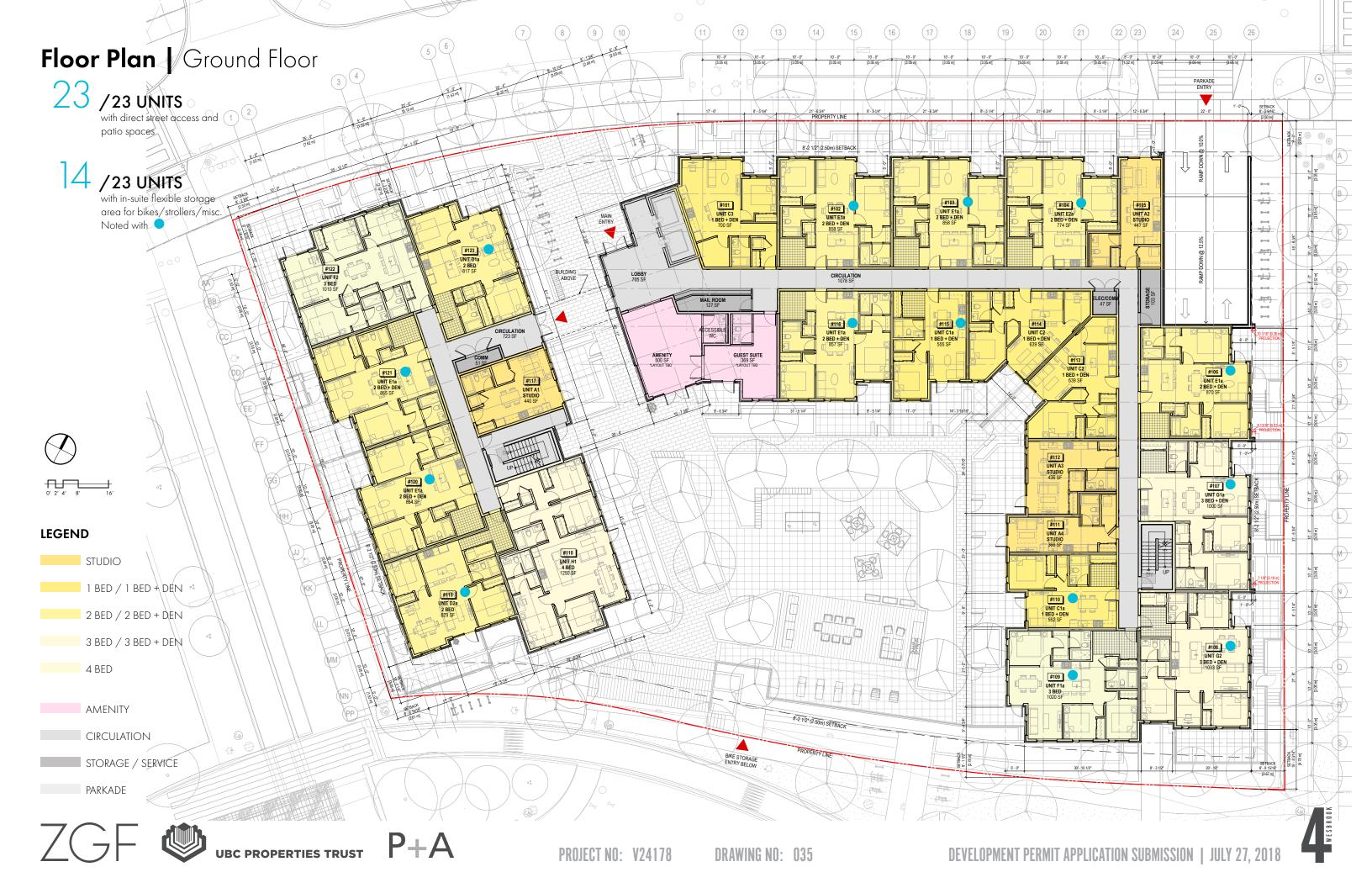
Tiered landscaping to create gradual transition from the courtyard to Mundell Park













PROJECT NO: V24178

DRAWING NO: 036



























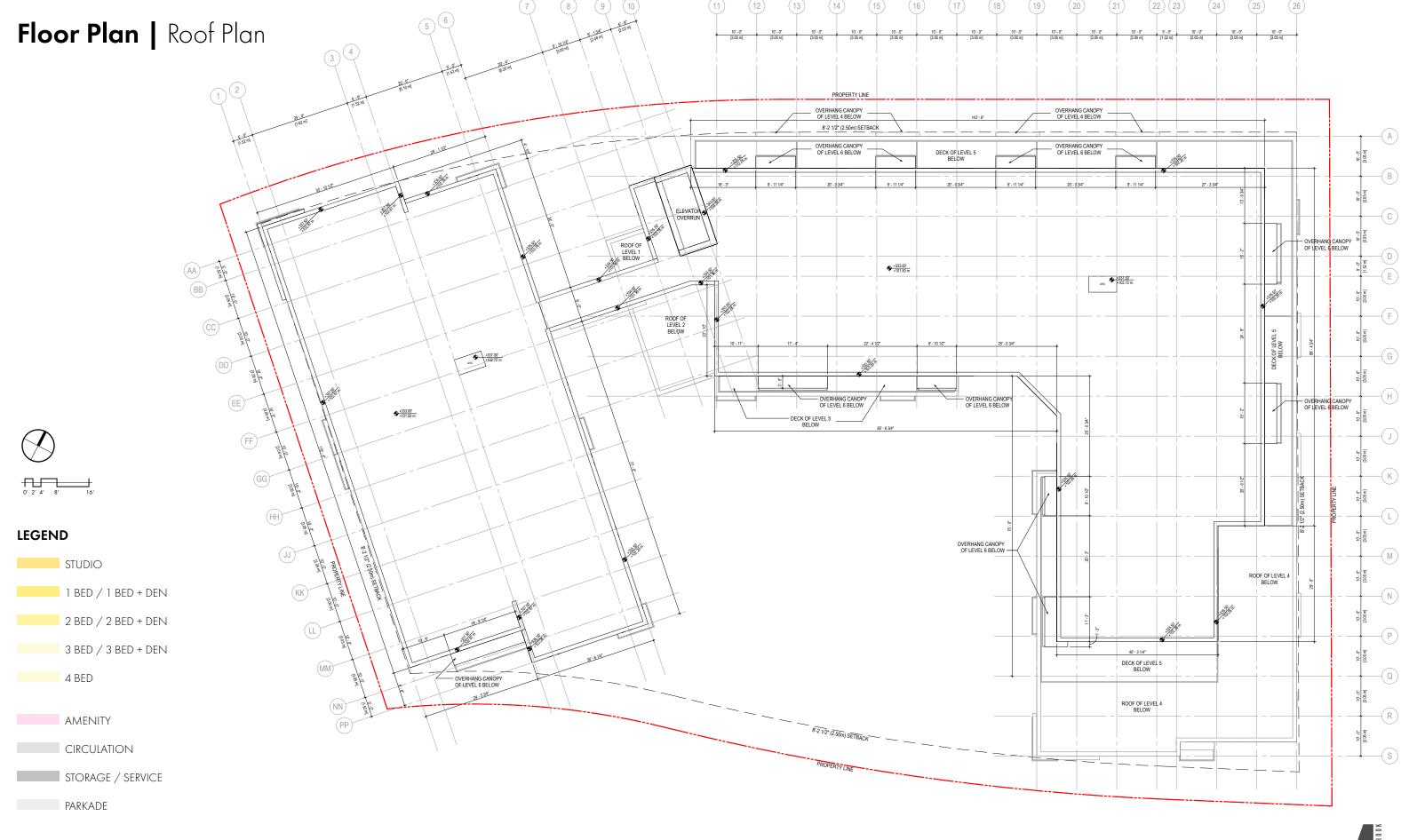














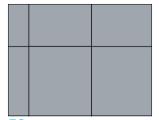




### **Material Palette**



Fiber Cement Board, White



F2
Fiber Cement Board,
Grey





Wood Textured Board





G1 Window and Doors, Grey Frames





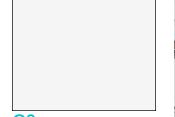
M1 Metal Panel Siding, Grey





W2 Wood Textured Siding





G2 Glass Guardrail, Frosted Panel with Black Frame





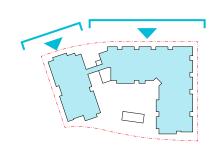








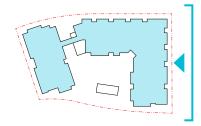
## North Elevation | Along Birney Avenue





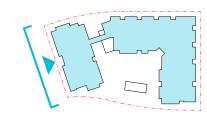
PROJECT NO: V24178

## East Elevation | Along Shrum Lane





# West Elevation | Along Webber Lane



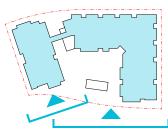






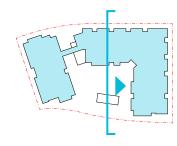
DRAWING NO: 045

## South Elevation | Along Scholar's Greenway





# Courtyard Elevation | Looking East







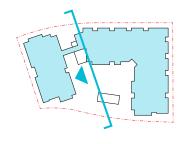








## Courtyard Elevation | Looking West







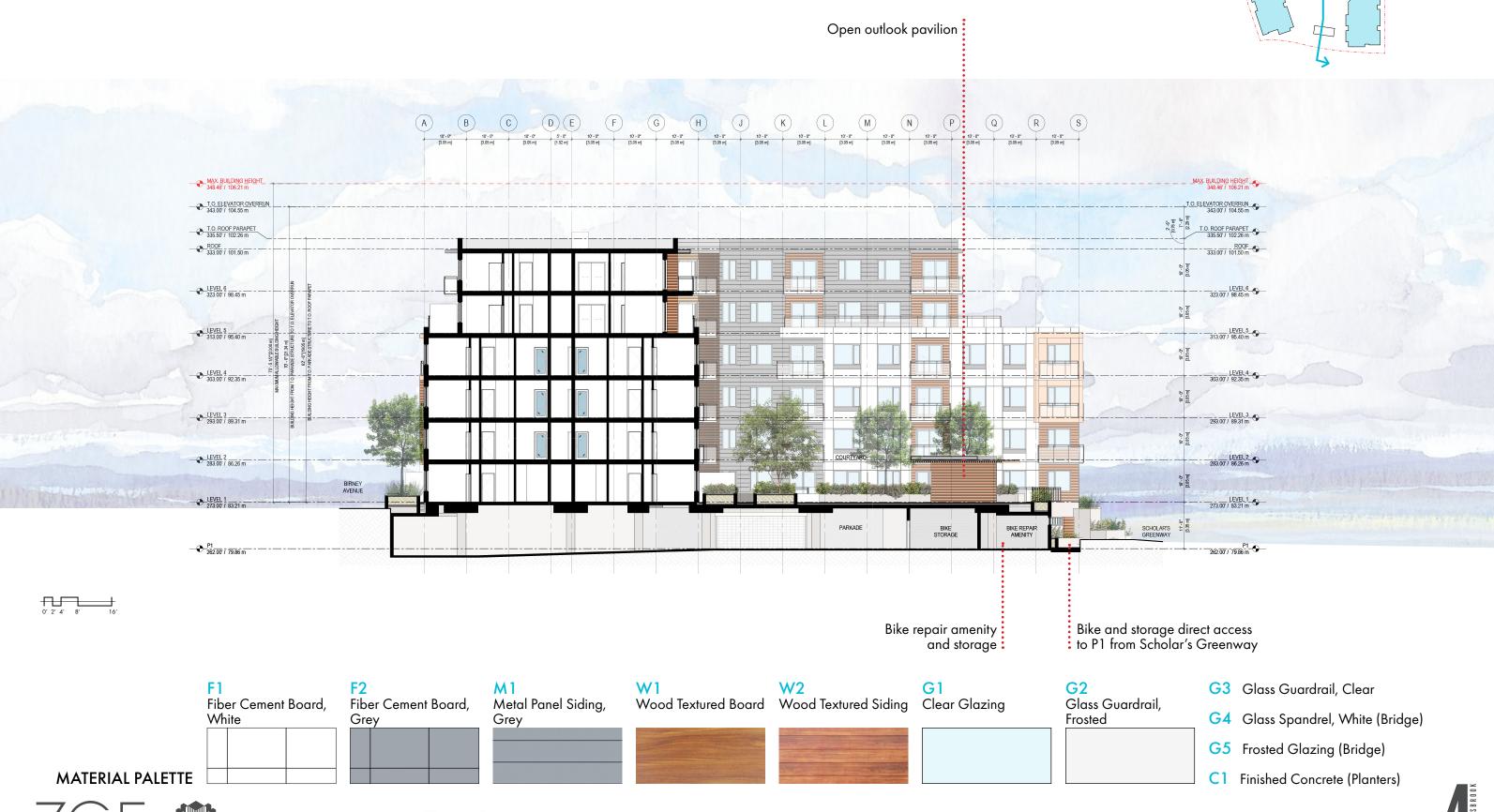








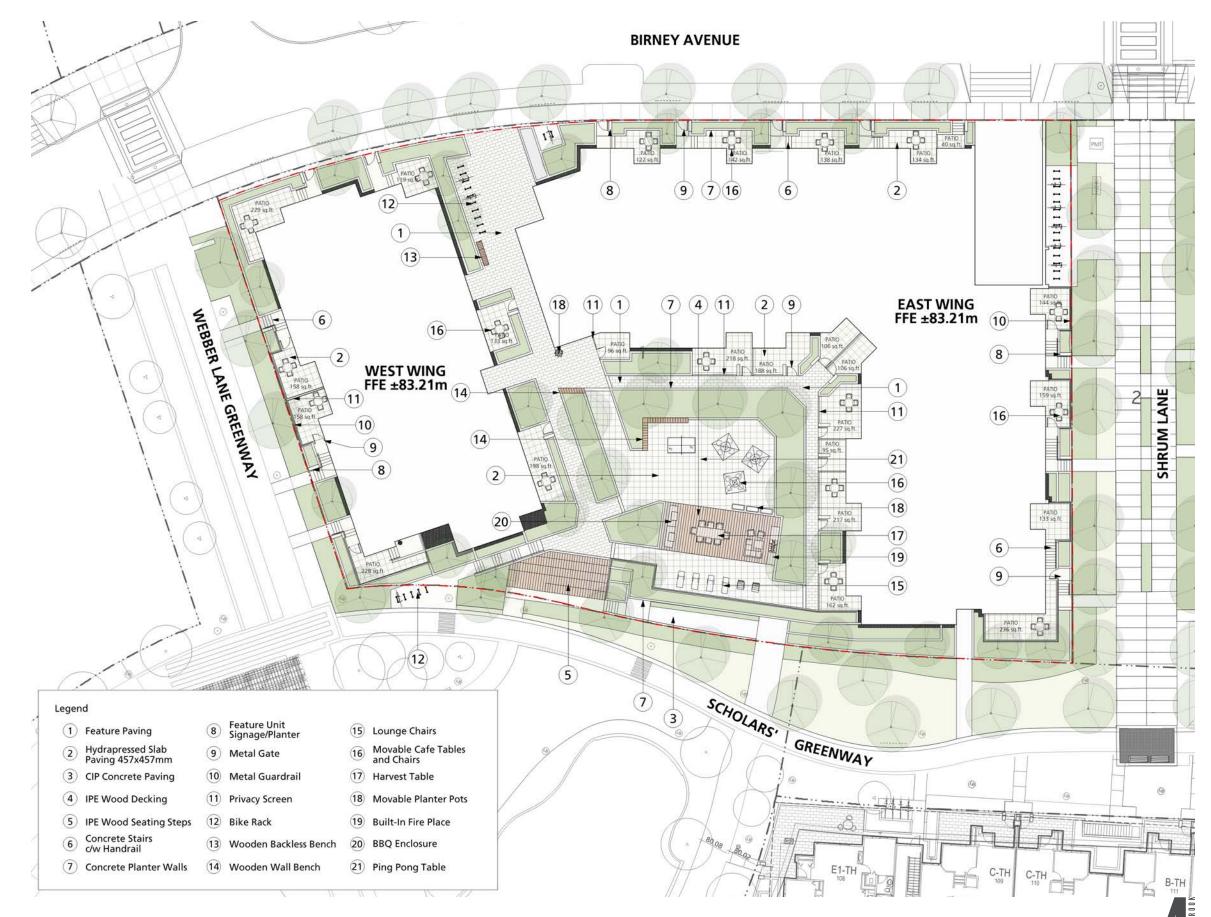
## Site Section | A



PROJECT NO: V24178



# Landscape | Key Plan

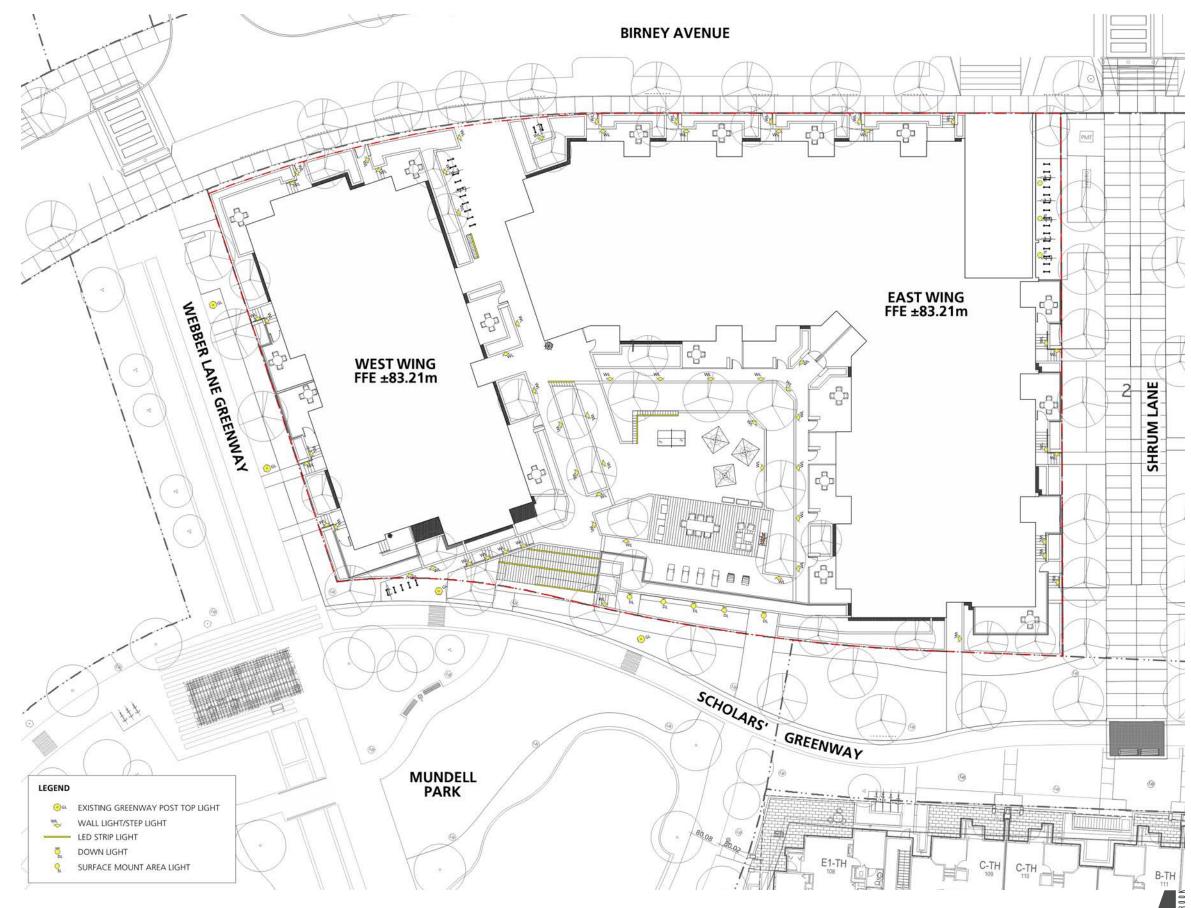








# Landscape | Lighting Plan

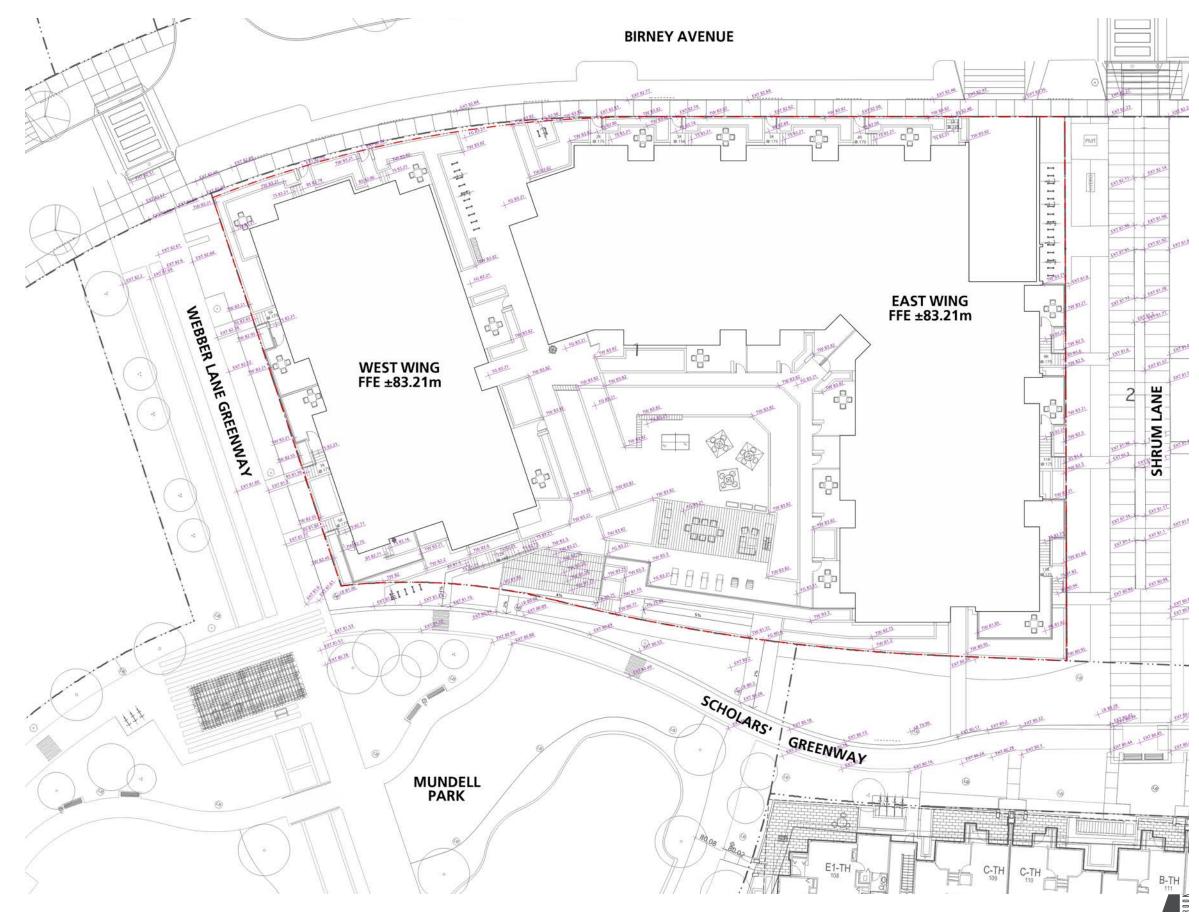








# Landscape | Grading Plan

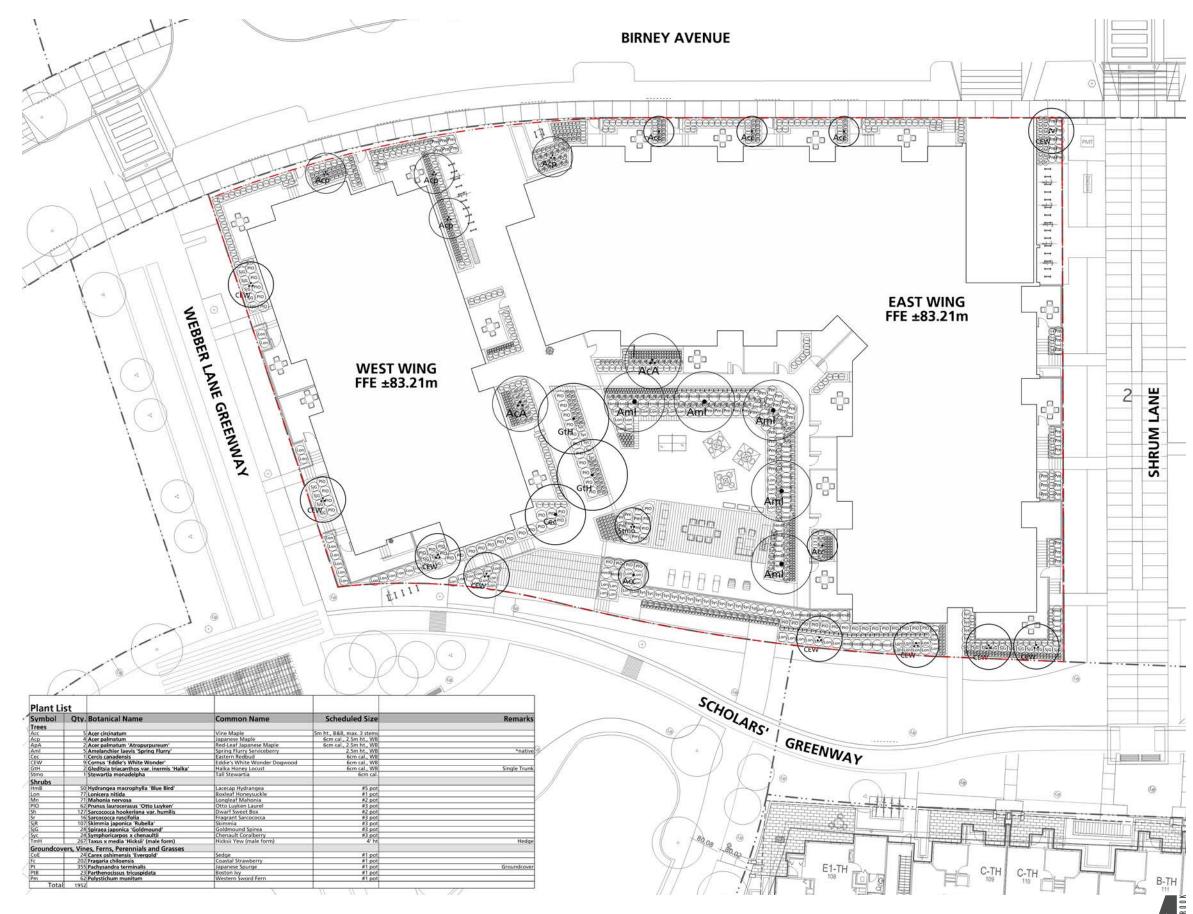








# Landscape | Planting Plan

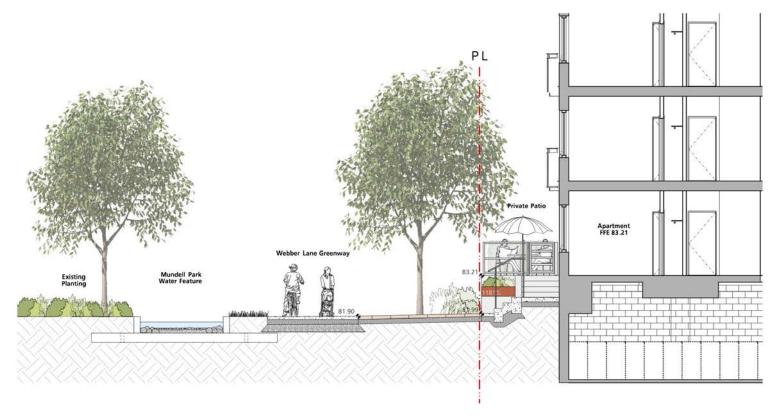








# **Landscape** | Sections



Apartment
FFE 83.21

R3.82

R3.82

R3.82

Section 1
West Wing Units and Connection to Webber Lane Greenway

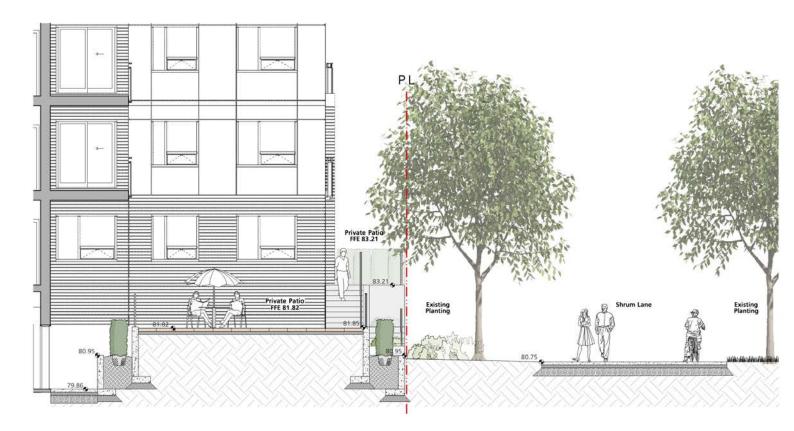
Section 2
West Wing Units and Landscape Corridor



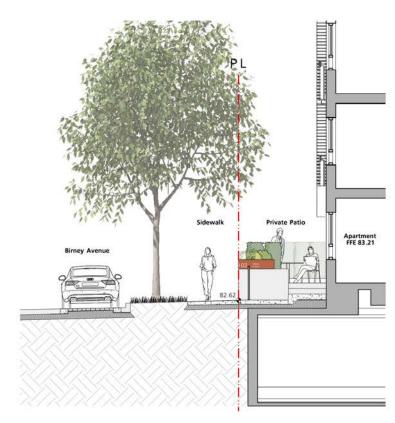




# **Landscape** | Sections



Section 3
East Wing Unit, Patio and Shrum Lane



Section 4

East Wing Unit and Connection to Birney Avenue







Section 5
Shrum Lane and East Wing Units









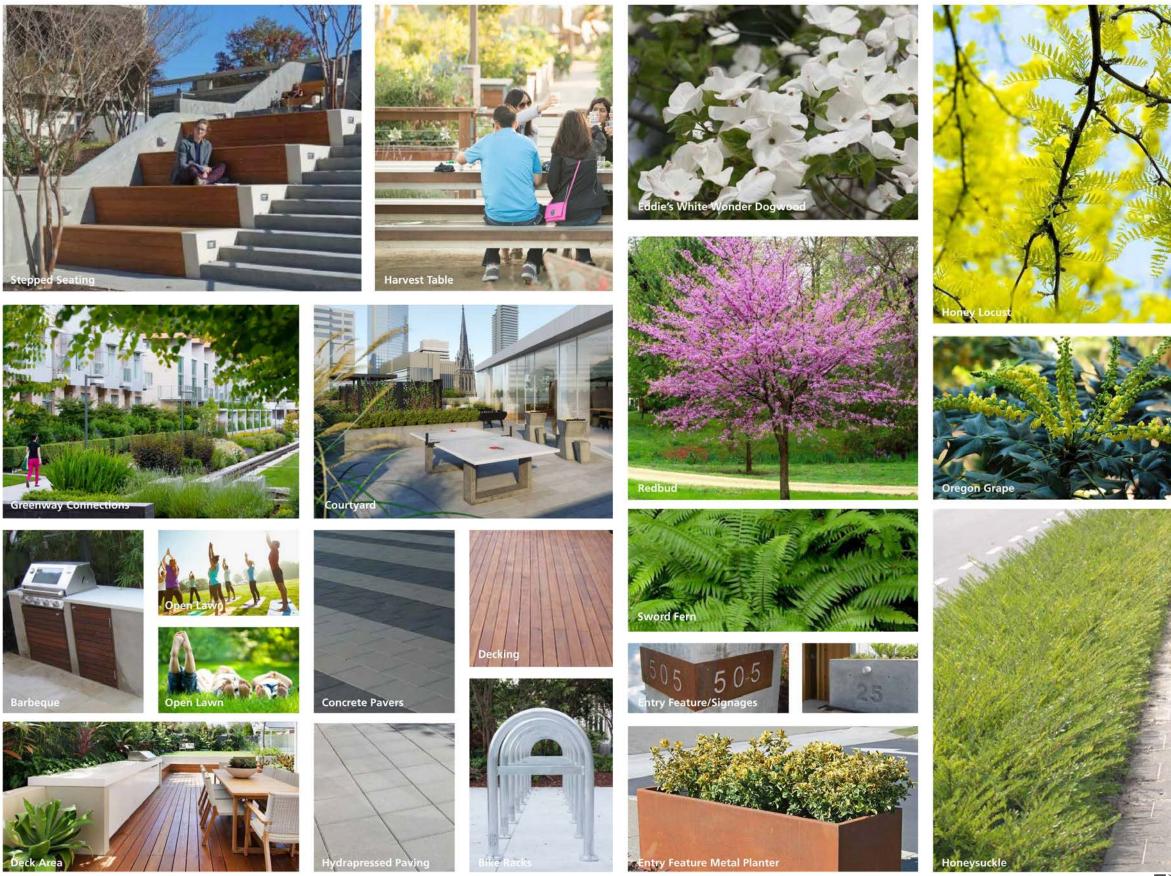
Section 6
East Wing Units, Courtyard, Outdoor Lounge and Connection to Scholar's Greenway







# Landscape | Precedent Images









### **CPTED Strategies**

#### **Automobile Theft**

- Residential and visitor parking stalls are provided in a monitored, fully enclosed, in a well-lit one-level below grade parkade.
- Vehicular access into the parkade is provided through a secure overhead door at the entry to the vehicular ramp and controlled by fob access.

#### **Natural Surveillance**

- The ground orientated units of the proposed development will significantly improve the surveillance of Birney Avenue, Webber Lane, Shrum Lane and Scholar's Greenway.
- Doors, door hardware and framing will be durable and vandal resistant.
- Operable windows are located in visible areas minimizing any potential for concealed attempts at breaking and entering.

### **High Visibility**

- The building has been designed with a clean simple footprint that minimizes the number of obstructed views and blind spots at grade.
- The residential garbage / recycling area and mail room are completely
  enclosed within the building footprint and accessible only to residents
  and service providers.

### **Safe Lighting Levels**

- Lighting surrounding the development, throughout all public access
  pathways and at all external unit entries provides a safe and welllit environment for both residents and adjacent public alike for this
  development.
- Parkade walls and columns will be painted light colours.

### **Security**

- The entrances into the residential lobby, stairs and parkade will be outfitted with a keypad and a swipe card reader. No public access will be permitted.
- Camera surveillance will be provided in the parkade and in all bike / storage rooms.
- A monitored fire alarm system combined with annunciator will be installed. Each unit and the parking garage will be its own fire detection and suppression system.







# **Sustainability** | REAP Checklist - 1/4

# UBC Residential Environmental Assessment Program REAP 3.0

#### Project Information

Developer: UBCPT

Architect: ZGF Architects

REAP consultant E3 Eco Group Inc.

Project Name: Lot 4

Neighbourhood: Wesbrook Village

Lot No.: 4

Street Address: Not Yet Assigned

Project Stage: Development Permit

UBC DP Reference No.:

Date: 2018-M06-20

CREDITS	Mandatory	Max	Score
Sustainable Sites (SS)	complete	10	4
Water Efficiency (WE)	complete	18	10
Energy & Atmosphere (EA)	complete	52	15
Materials & Resources (MR)	N/A	18	1
Indoor Environmental Quality (IEQ)	complete	8	6
Construction (CON)	complete	4	0
Innovation & Design Process (ID)	complete	24	13
Subtotal		134	49
TOTAL		134	49

REAP Rating:	GOLD(45-60 pts)
45-60 pts	Gold
61-75 pts	Gold Plus
76-100pts	Platinum
101-134 pts	Platinum Plus

		• • • • • • • • • • • • • • • • • • • •	ent, mair Score:		4 Mandatory points achieved
SS	1	MANDATORY	ocore.		4 Manualory points achieved
SS	M1	-		M	
55	M1	Storm Water Management Plan Develop a plan that integrates the on-site stormwater management system with the neighbourhood-wide stormwater management principles and strategies, including controlling of rate and/or quantity of run-off as required.	М	IVI	
SS	M2	Adapted and Ecologically Sound Planting  Demonstrate that landscape design has minimized the need for pesticides and irrigation through the selection of adaptive and drought-tolerant plants and consideration of the principles of Integrated Pest Management and xeriscaping.	М	M	
SS	M3	Bicycle Storage Provide covered storage facilities for securing bicycles in accordance with the UBC Development Handbook.	М	M	
SS	M4	Contribution to Community Car Sharing Contribute to the development of a community car-sharing network by funding the equivalent of one community vehicle per 100 residential units.	M	M	
SS	M5	Light Pollution Reduction  Do not exceed Illuminating Engineering Society of North America (IESNA) illuminance requirements as stated in the Recommended Practice Manual: Lighting for Exterior Environments.	М	M	
SS	M6	Recycling Collection Provide for collection of domestic paper, plastic, glass and metal recyclables by contracting with a waste management company for the service. Recycling storage space shall be designed in accordance with Metro Vancouver's Technical Specifications for Recycling Amenities.	M	M	
SS	M7	Compost Collection  Provide a space in the building for the collection compost and provide for the compost collection through a contract with UBC Waste Management or another waste management service provider. Design the space in the building in accordance with Metro Vancouver's Technical Specifications for Recycling Amenities.	M	M	
SS		OPTIONAL			
SS	1.1	In-Suite Recycling and Compost Separation Provide a space and system for simplified separation and collection of recycling and compostables in each suite or unit.  ALTERNATIVE TRANSPORTATION	2	0	
	2.1	Additional Bicycle Facilities In addition to the requirements for bicycle parking in the UBC Development Handbook, provide an additional 0.25 Class I bicycle storage/bedroom and a bicycle repair station within the building.	2	2	
	2.2	Electric Vehicle Charging – Visitor Provide one dedicated parking spot per 100 residential units for visitors of residents/owners, fully equipped with Level 2 charging station.	2	0	
	2.3	Electric Vehicle Charging - Resident Install necessary conduit and transformer capacity to accommodate Level 2 Charging Stations for the following percentage of owners/residents' parking (Max = 4 Points):  10% of owners/residents' parking – 2 Points 120% of owners/residents' parking – 2 Points	4	2	Additional 2 marked as "Maybe"









# **Sustainability** | REAP Checklist - 2/4

		Performance Category: Water Performance Category: Water Efficiency (WE)	18	Points	
		The intent of the Water Efficiency category is to encourage strategies that reduce the			
		amount of potable water used for landscape irrigation and building operations.			
			Score:	10	Mandatory points achieved
WE		MANDATORY			
WE	M1	Efficient Irrigation Technology and Rainwater Use	M	M	
		Design and install a water-efficient irrigation system that includes an automated controller, rain or soil sensors and pressure regulator and for non-grass areas use a			
		micro- or drip-feed irrigation or install a temporary irrigation system.			
		initial of any loca inigation of initial a temporary inigation system.			
	M2	Low-Flush Toilets	M	M	
		Specify and install high efficiency 4.8 L per flush (1.28 gal) single flush toilets or 3.4/6 L			
		per flush (0.9gal/1.6gal) dual flush toilets for all water closets.			
	М3	Low-Flow Faucet Aerators	M	M	
		Specify and install low-flow faucets with aerators in all bathroom sinks (max. 3.8 L per			
		minute) and in all kitchen sinks (max. 6.8 L per minute).			
	M4	I Fla 6h	М	M	
	IVI4	Low-Flow Showerheads Specify and install water-saving showerheads with a maximum flow rate of 8.5 L per	IVI	IVI	
		minute in each shower.			
	M5	Energy Star Clothes Washers and Dishwashers	M	M	
		Specify and install Energy Star-labelled clothes washers and dishwashers in each unit, or			
		specify and offer only Energy Star models if these appliances are optional.			
WE		OPTIONAL			
WE	1	WATER EFFICIENT LANDSCAPING	1		
	1.1	Reduce Potable Water Use	3	3	
		Reduce potable water use for site irrigation needs by 50% from the calculated mid- summer baseline.			
	1.2	Eliminate Potable Water Use	3	0	
		Eliminate potable water use for site irrigation needs.		·	
WE	2	WATER USE REDUCTION			!
	2.1	Low-Flow Showerheads	2	2	
		Specify and install water-saving showerheads (maximum of 5.7 L per minute) in each			
		shower			
	2.2	Water Efficient Dishwasher	1	0	
		Specify and install water-efficient dishwashers that use ≤ 11 L (2.91 gal) per normal wash			
		cycle or if dishwashers are available only as an option, specify and offer only models			
	2.3	complying with this credit.  Most Efficient Clothes Washers	2	0	
	2.3	Specify and install Energy Star clothes washers listed as "Most Efficient" for current year,	2	U	
		or if washers are available only as an option, specify and offer only models complying to			
		this standard.			
	2.4	Water Use Reduction Package	2	0	
		Additional credit for achieving credits: WE 1.1, WE 2.1, WE 2.2 and WE 2.3.			
WE	3	WATER METERING			
	3.1	Domestic Hot Water metering	3	3	
		In units with central hot water, provide individual hot water metering.			
	3.2	Demostic Cold Water metering	2	2	
	3.2	Domestic Cold-Water metering Provide for individual cold water meters for all units.		2	
		i rovide idi individual colu water meters idi ali units.			

			Score:	15	Mandatory points achieved
Α		MANDATORY			7,
EA	M1	Minimum Roof Insulation	M	M	
		Design the roof assembly with a minimum insulation value of R-40 h·ft².°F/Btu (7.04 °K-m2/W) for buildings with attic space and R-28 h·ft².°F/Btu (4.93 °K-m2/W) for cathedral ceilings/flat roofs.			
	M2	Minimum Exterior Wall Insulation	M	M	
		Design the exterior insulated wall area with a minimum thermal resistance of effective (overall) R-15.6 h·ft²-°F/Btu (2.75 °K-m2/W) for above grade non-glazed wall areas, and R-7.5 h·ft²-°F/Btu (1.32 °K-m2/W) "continuous insulation" for below grade walls.			
	М3	Minimum Floor Insulation  Design floors above non-heated parkade areas with a minimum insulation value of R-30 h:ft².°F/Btu (5.28 °K-m2/W) for framed floors and R-15.6 h:ft².°F/Btu (2.75 °K-m2/W) for slab floors.	M	M	
	M4	Energy Efficient Windows	М	М	
		Specify and install Energy Star-rated windows or windows with a maximum overall U-value of 0.35 Btu/hr-ft2-°F (2.0 W/m2-°K for non-metal framed windows or a maximum overall U-value of 0.45 Btu/hr-ft2-°F (2.55 W/m2-°K) for metal framed windows.		-	
	M5	Minimum Boiler Efficiency Specify and install boilers with a minimum thermal efficiency of 84% /AFUE of minimum 90% or heat using District Energy.	М	М	
	М6	Domestic Hot Water	M	M	
		Specify and install gas DHW boilers with a minimum efficiency of 84% (mid-efficiency boiler) or heat domestic hot water using District Energy.			
	M7	Energy Star Dishwashers and Refrigerators	M	M	
		Specify and install Energy Star-labelled dishwashers and refrigerators in each unit.			
	M8	Programmable Thermostats Specify and install programmable thermostats for at least the largest heating zone in each unit.	М	М	
	М9	Common Area Lighting Specify and install only non-incandescent lighting, such as fluorescent, compact fluorescent or LED, in common areas.	M	М	
	M10	Parkade and Corridor Lighting Controls	М	M	
		Specify and install parkade and corridor lighting controls to automatically reduce the overall lighting level by at least 30% in a lighting zone when the zone is unoccupied.			
EA		MANDATORY			
	<u> </u>	ENERGY EFFICIENCY TARGETS			
		EA GOLD-Mandatory  Design the building to meet a maximum EUI of 160 kwh/m2/yr, demonstrated using the UBC Energy Modeling Guidelines. This credit is mandatory and required for achievement of REAP Gold.	6	6	
		EA Gold Plus  Design the building to meet a maximum EUI of 140 kwh/m2/yr, demonstrated using the UBC Energy Modeling Guidelines. This credit is mandatory and required for achievement of REAP Gold Plus.	8	0	Maybe
		EA Platinum  Design the building to meet a maximum EUI of 120 kwh/m2/yr, demonstrated using the UBC Energy Modeling Guidelines. This credit is mandatory and required for achievement of REAP Platinum.	10	0	Maybe
		EA Platinum Plus  Design the building to meet a maximum EUI of 105 kwh/m2/yr, demonstrated using the UBC Energy Modeling Guidelines. This credit is mandatory and required for achievement of REAP Platinum Plus.	10	0	
EA	1	ENERGY METERING			
	1.1	Thermal Energy Sub-Metering Provide separate metering in individual units for measuring thermal energy consumption used for space heating.	1	1	







# **Sustainability** | REAP Checklist - 3/4

EA	2	RENEWABLE ENERGY			
L'A	2.1	Future Renewable Electricity	1	1	
	2.1	•	'	1	
		Pre-wire buildings and provide installation space for future use of photovoltaic			
	2.4	technologies or other renewable electricity generation.	-	_	Mauha
	2.1	Renewable Electricity Utilization	3	0	Maybe
		Utilize photovoltaic technologies or other renewable electricity generation for a portion of			Exploring Leasing Option
	2.2	the building's electrical supply	-	-	
	2.3	Low-Carbon District Energy Utilization	5	5	
	Ì	Utilize low carbon, renewable energy through connect to the District Energy System for			
		the building's thermal energy supply (or be District Energy compatible).			
F.4	-	COMMISSIONING			
EA	3	COMMISSIONING		^	
	3.1	Contract a third party Commissioning Authority to develop and implement a	4	0	
		Contract a third party Commissioning Authority to develop and implement a			
		commissioning plan for all major building energy systems and verify they are installed, calibrated and perform according to design intent.			
FA	A				
EA	4	AIRTIGHTNESS	1 1	0	1
	4.1	Airtightness	2	0	
1	Ì	The building envelope shall be constructed so that the air change rate is not greater than 3.5ACH50 when measured in accordance with CAN/CGSB-149.15-M86 (Determination			
	Ì	of the airtightness of Building envelopes by the Fan Depressurization Method.)			
		or the amaginates of building envelopes by the Lan Depressuitzation Method.)			
EA	_	ENEDGY MODEL LING MODKSHOD			
EA	5	ENERGY MODELLING WORKSHOP	1 1	2	1
	5.1	Energy Modelling Workshop	2	2	
	Ì	Model the energy performance of the building and hold a workshop with the design team,			
		a representative from Campus sustainability and contractor to evaluate the results and			
	L	optimize the design of the building.	40	Dain/	
		Performance Category: Materials & Resources (MR)	18	Points	
		The intent of the Materials & Resources category is to encourage design strategies that			
		reduce and reuse material resources, reduce construction waste, and to select building materials that are environmentally preferable.			
		**	Sec.	4	No Mandaton Haw-
MR		OPTIONAL	Score:	1	No Mandatory Items
MR MR	1	RECYCLED CONTENT AND REUSED MATERIALS			
	1.1	Reused Building Materials	2	0	
1	'''	Use salvaged, refurbished, or reused materials for at least 5% of the total cost of building		٠	
		materials.			
	I		1		
1					
	1.2	Reused Building Materials	2	0	
	1.2	Reused Building Materials Use salvaged, refurbished, or reused materials for at least 10% of the total cost of	2	0	
	1.2	Reused Building Materials Use salvaged, refurbished, or reused materials for at least 10% of the total cost of building materials.	2	0	
	1.2	Use salvaged, refurbished, or reused materials for at least 10% of the total cost of	2	0	
	1.2	Use salvaged, refurbished, or reused materials for at least 10% of the total cost of	2	0	
		Use salvaged, refurbished, or reused materials for at least 10% of the total cost of building materials.  Recycled Content Materials			
		Use salvaged, refurbished, or reused materials for at least 10% of the total cost of building materials.			
		Use salvaged, refurbished, or reused materials for at least 10% of the total cost of building materials.  Recycled Content Materials  Specify and use building materials with the following recycled content levels:  Common area carpet with minimum 25% recycled content		1	
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		Use salvaged, refurbished, or reused materials for at least 10% of the total cost of building materials.  Recycled Content Materials  Specify and use building materials with the following recycled content levels:  Common area carpet with minimum 25% recycled content  Drywall with minimum 15% recycled content  Batt insulation with minimum 40% recycled content		1 Y Y	
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MR	1.3	Use salvaged, refurbished, or reused materials for at least 10% of the total cost of building materials.  Recycled Content Materials  Specify and use building materials with the following recycled content levels:  Common area carpet with minimum 25% recycled content  Drywall with minimum 15% recycled content  Batt insulation with minimum 40% recycled content  Doors contain minimum 15% recycled material  Concrete with min. 20% fly ash content, excluding suspended slabs  Concrete with min. 40% fly ash content, excluding suspended slabs  Cabinetry with minimum 20% recycled content  MDF products with minimum 50% recycled content  Minimum four recycled content items on list above 1 point  All eight recycled content items on list above 2 points		1 Y Y Y Y N N	
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	2 2.1 2.2	Use salvaged, refurbished, or reused materials for at least 10% of the total cost of building materials.  Recycled Content Materials Specify and use building materials with the following recycled content levels: Common area carpet with minimum 25% recycled content Drywall with minimum 15% recycled content Batt insulation with minimum 40% recycled content Doors contain minimum 15% recycled material Concrete with min. 20% fly ash content, excluding suspended slabs Concrete with min. 40% fly ash content, excluding suspended slabs Cabinetry with minimum 20% recycled content MDF products with minimum 50% recycled content Minimum four recycled content items on list above 1 point All eight recycled content items on list above 2 points REGIONAL MATERIALS Regionally Manufactured Building Materials Use a minimum of 20% (by value) of building materials and products that are manufactured within a radius of 800 km (500 miles).  Regionally Sourced Building Materials Of the materials from Credit MR 2.1, use a minimum of 50% (by value) of building materials and products that are extracted, harvested or recovered (as well as manufactured) within a radius of 800 km (500 miles).  CERTIFIED AND NON-ENDANGERED FOREST PRODUCTS Dimensional Lumber	1 1	1 Y Y Y N N N O	2 points marked as "Maybe"
	2 2.1 2.2	Use salvaged, refurbished, or reused materials for at least 10% of the total cost of building materials.  Recycled Content Materials Specify and use building materials with the following recycled content levels: Common area carpet with minimum 25% recycled content Drywall with minimum 15% recycled content Batt insulation with minimum 40% recycled content Doors contain minimum 15% recycled material Concrete with min. 20% fly ash content, excluding suspended slabs Concrete with min. 40% fly ash content, excluding suspended slabs Cabinetry with minimum 20% recycled content MDF products with minimum 50% recycled content Minimum four recycled content items on list above 1 point All eight recycled content items on list above 2 points REGIONAL MATERIALS Regionally Manufactured Building Materials Use a minimum of 20% (by value) of building materials and products that are manufactured within a radius of 800 km (500 miles).  Regionally Sourced Building Materials Of the materials from Credit MR 2.1, use a minimum of 50% (by value) of building materials and products that are extracted, harvested or recovered (as well as manufactured) within a radius of 800 km (500 miles).	1 1	1 Y Y Y N N N O	2 points marked as "Maybe"
	2 2.1 2.2	Use salvaged, refurbished, or reused materials for at least 10% of the total cost of building materials.  Recycled Content Materials Specify and use building materials with the following recycled content levels: Common area carpet with minimum 25% recycled content Drywall with minimum 15% recycled content Batt insulation with minimum 40% recycled content Doors contain minimum 15% recycled material Concrete with min. 20% fly ash content, excluding suspended slabs Concrete with min. 40% fly ash content, excluding suspended slabs Cabinetry with minimum 20% recycled content MIDF products with minimum 50% recycled content Minimum four recycled content items on list above 1 point All eight recycled content items on list above 2 points REGIONAL MATERIALS Regionally Manufactured Building Materials Use a minimum of 20% (by value) of building materials and products that are manufactured within a radius of 800 km (500 miles).  Regionally Sourced Building Materials Of the materials from Credit MR 2.1, use a minimum of 50% (by value) of building materials and products that are extracted, harvested or recovered (as well as manufactured) within a radius of 800 km (500 miles).  CERTIFIED AND NON-ENDANGERED FOREST PRODUCTS  Dimensional Lumber Demonstrate that a minimum of 50% of the total value of dimensional lumber and	1 1	1 Y Y Y N N N O	2 points marked as "Maybe"
	2 2.1 2.2	Use salvaged, refurbished, or reused materials for at least 10% of the total cost of building materials.  Recycled Content Materials Specify and use building materials with the following recycled content levels: Common area carpet with minimum 25% recycled content Drywall with minimum 15% recycled content Batt insulation with minimum 40% recycled content Doors contain minimum 15% recycled material Concrete with min. 20% fly ash content, excluding suspended slabs Concrete with min. 40% fly ash content, excluding suspended slabs Cabinetry with minimum 20% recycled content MDF products with minimum 50% recycled content Minimum four recycled content items on list above 1 point All eight recycled content items on list above 2 points REGIONAL MATERIALS Regionally Manufactured Building Materials Use a minimum of 20% (by value) of building materials and products that are manufactured within a radius of 800 km (500 miles).  Regionally Sourced Building Materials Of the materials from Credit MR 2.1, use a minimum of 50% (by value) of building materials and products that are extracted, harvested or recovered (as well as manufactured) within a radius of 800 km (500 miles).  CERTIFIED AND NON-ENDANGERED FOREST PRODUCTS Dimensional Lumber Demonstrate that a minimum of 50% of the total value of dimensional lumber and plywood is certified in accordance with either:	1 1	1 Y Y Y N N N O	2 points marked as "Maybe"







1	3.2	Or Forest Stewardship Council (FSC) 3 points	3	0	
		Specify and install bamboo floors or hardwood floors certified in accordance with the			
		Forest Stewardship Council or CSA Z809. If floors are offered only as an option, specify			
		and offer only bamboo or renewable products with third-party certification.			
		CSA Z809 – 2 Points			
		Or Forest Stewardship Council (FSC) – 3 Points			
MR	4	BUILDING PRODUCT INGREDIENTS	l		
	4.1	Transparency of Ingredients	2	0	"Maybe"
					,
		Install ten different building products from three different manufacturers that demonstrate			
		the chemical inventory of the product to and accuracy of 0.1% for each product. For			
		each product selected provide either:			
		Health Product Declaration			
		Manufacturer Inventory of all ingredients by CAS number, of			
		Declare Label (Living Building Institute)			
	4.2	Optimization of Ingredients	2	0	
		Demonstrate that a minimum of 10% (by value) of building materials are optimized for			
		ingredient content by demonstrating optimization in one of the following ways:			
		GreenScreen v1.2 benchmark 4 minimum			
		Red List free     Tree of ingredients listed on REACH Authorization and Condidate List			
		Free of ingredients listed on REACH Authorization and Candidate List			
		Performance Category: Indoor Environmental Quality (IEQ)	8	Points	
		The intent of the Indoor Environmental Quality category is to achieve enhanced indoor			
		environmental quality through the thoughtful selection and application of materials and effective ventilation strategies.			
		enective ventulation strategies.			M. I. C. L. L. L.
IEQ			Score:	6	Mandatory points achieved
ILQ	M4	MANDATORY  Adhesives and Sectors	I M I	M	
ILQ	M1	Adhesives and Sealants	М	M	
iLQ	M1	Adhesives and Sealants Specify and use adhesives, sealants and sealant primers that do not exceed the VOC	M	M	
ILQ	M1	Adhesives and Sealants Specify and use adhesives, sealants and sealant primers that do not exceed the VOC limits of the Canadian Environmental Choice/EcoLogo program or do not exceed the	М	M	
ILQ	M1	Adhesives and Sealants Specify and use adhesives, sealants and sealant primers that do not exceed the VOC	М	M	
ILQ	M1	Adhesives and Sealants Specify and use adhesives, sealants and sealant primers that do not exceed the VOC limits of the Canadian Environmental Choice/EcoLogo program or do not exceed the VOC limits specified in the State of California's South Coast Air Management District	М	M	
ILQ	M1 M2	Adhesives and Sealants Specify and use adhesives, sealants and sealant primers that do not exceed the VOC limits of the Canadian Environmental Choice/EcoLogo program or do not exceed the VOC limits specified in the State of California's South Coast Air Management District	M	M	
IL V		Adhesives and Sealants Specify and use adhesives, sealants and sealant primers that do not exceed the VOC limits of the Canadian Environmental Choice/EcoLogo program or do not exceed the VOC limits specified in the State of California's South Coast Air Management District Rule #1168.			
IL V		Adhesives and Sealants Specify and use adhesives, sealants and sealant primers that do not exceed the VOC limits of the Canadian Environmental Choice/EcoLogo program or do not exceed the VOC limits specified in the State of California's South Coast Air Management District Rule #1168.  Paints and Coatings			
IL W		Adhesives and Sealants Specify and use adhesives, sealants and sealant primers that do not exceed the VOC limits of the Canadian Environmental Choice/EcoLogo program or do not exceed the VOC limits specified in the State of California's South Coast Air Management District Rule #1168.  Paints and Coatings Specify and use paints and coatings that carry an EcoLogo label or those rated at a			
iL d		Adhesives and Sealants Specify and use adhesives, sealants and sealant primers that do not exceed the VOC limits of the Canadian Environmental Choice/EcoLogo program or do not exceed the VOC limits specified in the State of California's South Coast Air Management District Rule #1168.  Paints and Coatings Specify and use paints and coatings that carry an EcoLogo label or those rated at a			
iLQ	M2	Adhesives and Sealants Specify and use adhesives, sealants and sealant primers that do not exceed the VOC limits of the Canadian Environmental Choice/EcoLogo program or do not exceed the VOC limits specified in the State of California's South Coast Air Management District Rule #1168.  Paints and Coatings Specify and use paints and coatings that carry an EcoLogo label or those rated at a minimum GPI-1 by the Master Painter's Institute on the interior of the building.	М	M	
i.e.v	M2 M3	Adhesives and Sealants Specify and use adhesives, sealants and sealant primers that do not exceed the VOC limits of the Canadian Environmental Choice/EcoLogo program or do not exceed the VOC limits specified in the State of California's South Coast Air Management District Rule #1168.  Paints and Coatings Specify and use paints and coatings that carry an EcoLogo label or those rated at a minimum GPI-1 by the Master Painter's Institute on the interior of the building.  Floor Coverings Specify and install carpet and carpet cushion that carry the following certifications: Carpet and Rug Institute Green Label Plus or the Ecologo.	M	M	
i.e.	M2	Adhesives and Sealants Specify and use adhesives, sealants and sealant primers that do not exceed the VOC limits of the Canadian Environmental Choice/EcoLogo program or do not exceed the VOC limits specified in the State of California's South Coast Air Management District Rule #1168.  Paints and Coatings Specify and use paints and coatings that carry an EcoLogo label or those rated at a minimum GPI-1 by the Master Painter's Institute on the interior of the building.  Floor Coverings Specify and install carpet and carpet cushion that carry the following certifications: Carpet and Rug Institute Green Label Plus or the Ecologo.  Ventilation Effectiveness	М	M	
i y	M2 M3	Adhesives and Sealants Specify and use adhesives, sealants and sealant primers that do not exceed the VOC limits of the Canadian Environmental Choice/EcoLogo program or do not exceed the VOC limits specified in the State of California's South Coast Air Management District Rule #1168.  Paints and Coatings Specify and use paints and coatings that carry an EcoLogo label or those rated at a minimum GPI-1 by the Master Painter's Institute on the interior of the building.  Floor Coverings Specify and install carpet and carpet cushion that carry the following certifications: Carpet and Rug Institute Green Label Plus or the Ecologo.  Ventilation Effectiveness Prepare and implement an effective air management strategy that meets the	M	M	
i.y	M2 M3	Adhesives and Sealants Specify and use adhesives, sealants and sealant primers that do not exceed the VOC limits of the Canadian Environmental Choice/EcoLogo program or do not exceed the VOC limits specified in the State of California's South Coast Air Management District Rule #1168.  Paints and Coatings Specify and use paints and coatings that carry an EcoLogo label or those rated at a minimum GPI-1 by the Master Painter's Institute on the interior of the building.  Floor Coverings Specify and install carpet and carpet cushion that carry the following certifications: Carpet and Rug Institute Green Label Plus or the Ecologo.  Ventilation Effectiveness Prepare and implement an effective air management strategy that meets the requirements of the current versions of CAN/CSA F326 or ASHRAE-62.1 or 62.2 as	M	M	
	M2 M3	Adhesives and Sealants Specify and use adhesives, sealants and sealant primers that do not exceed the VOC limits of the Canadian Environmental Choice/EcoLogo program or do not exceed the VOC limits specified in the State of California's South Coast Air Management District Rule #1168.  Paints and Coatings Specify and use paints and coatings that carry an EcoLogo label or those rated at a minimum GPI-1 by the Master Painter's Institute on the interior of the building.  Floor Coverings Specify and install carpet and carpet cushion that carry the following certifications: Carpet and Rug Institute Green Label Plus or the Ecologo.  Ventilation Effectiveness Prepare and implement an effective air management strategy that meets the requirements of the current versions of CAN/CSA F326 or ASHRAE-62.1 or 62.2 as applicable to the building configuration.	M	M	
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	M2 M3 M4	Adhesives and Sealants Specify and use adhesives, sealants and sealant primers that do not exceed the VOC limits of the Canadian Environmental Choice/EcoLogo program or do not exceed the VOC limits specified in the State of California's South Coast Air Management District Rule #1168.  Paints and Coatings Specify and use paints and coatings that carry an EcoLogo label or those rated at a minimum GPI-1 by the Master Painter's Institute on the interior of the building.  Floor Coverings Specify and install carpet and carpet cushion that carry the following certifications: Carpet and Rug Institute Green Label Plus or the Ecologo.  Ventilation Effectiveness Prepare and implement an effective air management strategy that meets the requirements of the current versions of CAN/CSA F326 or ASHRAE-62.1 or 62.2 as applicable to the building configuration.  OPTIONAL  LOW-EMITTING MATERIALS	M M	M M	
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IEQ	M2 M3 M4 1.1	Adhesives and Sealants Specify and use adhesives, sealants and sealant primers that do not exceed the VOC limits of the Canadian Environmental Choice/EcoLogo program or do not exceed the VOC limits specified in the State of California's South Coast Air Management District Rule #1168.  Paints and Coatings Specify and use paints and coatings that carry an EcoLogo label or those rated at a minimum GPI-1 by the Master Painter's Institute on the interior of the building.  Floor Coverings Specify and install carpet and carpet cushion that carry the following certifications: Carpet and Rug Institute Green Label Plus or the Ecologo.  Ventilation Effectiveness Prepare and implement an effective air management strategy that meets the requirements of the current versions of CAN/CSA F326 or ASHRAE-62.1 or 62.2 as applicable to the building configuration.  OPTIONAL  LOW-EMITTING MATERIALS Low VOC Paints and Coatings Specify and use paints and coatings rated at a minimum GPS-2 by the Master Painter's Institute on the interior of the building.  Low-Emitting Composite Wood Products Specify and install interior composite wood products, such as flooring, doors, trim, etc.,	M M	M M M 2	
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IEQ	M2 M3 M4 1 1.1	Adhesives and Sealants Specify and use adhesives, sealants and sealant primers that do not exceed the VOC limits of the Canadian Environmental Choice/EcoLogo program or do not exceed the VOC limits specified in the State of California's South Coast Air Management District Rule #1168.  Paints and Coatings Specify and use paints and coatings that carry an EcoLogo label or those rated at a minimum GPI-1 by the Master Painter's Institute on the interior of the building.  Floor Coverings Specify and install carpet and carpet cushion that carry the following certifications: Carpet and Rug Institute Green Label Plus or the Ecologo.  Ventilation Effectiveness Prepare and implement an effective air management strategy that meets the requirements of the current versions of CAN/CSA F326 or ASHRAE-62.1 or 62.2 as applicable to the building configuration.  OPTIONAL  LOW-EMITTING MATERIALS Low VOC Paints and Coatings Specify and use paints and coatings rated at a minimum GPS-2 by the Master Painter's Institute on the interior of the building.  Low-Emitting Composite Wood Products Specify and install interior composite wood products, such as flooring, doors, trim, etc., that have no added urea formaldehyde. Cabinetry is excluded from this credit.	M M	M M 2 2 2	Maybe
IEQ	M2 M3 M4 1.1.1 1.2	Adhesives and Sealants Specify and use adhesives, sealants and sealant primers that do not exceed the VOC limits of the Canadian Environmental Choice/EcoLogo program or do not exceed the VOC limits specified in the State of California's South Coast Air Management District Rule #1168.  Paints and Coatings Specify and use paints and coatings that carry an EcoLogo label or those rated at a minimum GPI-1 by the Master Painter's Institute on the interior of the building.  Floor Coverings Specify and install carpet and carpet cushion that carry the following certifications: Carpet and Rug Institute Green Label Plus or the Ecologo.  Ventilation Effectiveness Prepare and implement an effective air management strategy that meets the requirements of the current versions of CAN/CSA F326 or ASHRAE-62.1 or 62.2 as applicable to the building configuration.  OPTIONAL  LOW-EMITTING MATERIALS Low VOC Paints and Coatings Specify and use paints and coatings rated at a minimum GPS-2 by the Master Painter's Institute on the interior of the building.  Low-Emitting Composite Wood Products Specify and install interior composite wood products, such as flooring, doors, trim, etc., that have no added urea formaldehyde. Cabinetry is excluded from this credit.  Low-Emitting Insulation Specify and install formaldehyde-free insulation on the interior of the building.	M M 2 2 2	M M 2 2 2	Maybe
IEQ	M2 M3 M4 1.1.1 1.2	Adhesives and Sealants Specify and use adhesives, sealants and sealant primers that do not exceed the VOC limits of the Canadian Environmental Choice/EcoLogo program or do not exceed the VOC limits specified in the State of California's South Coast Air Management District Rule #1168.  Paints and Coatings Specify and use paints and coatings that carry an EcoLogo label or those rated at a minimum GPI-1 by the Master Painter's Institute on the interior of the building.  Floor Coverings Specify and install carpet and carpet cushion that carry the following certifications: Carpet and Rug Institute Green Label Plus or the Ecologo.  Ventilation Effectiveness Prepare and implement an effective air management strategy that meets the requirements of the current versions of CAN/CSA F326 or ASHRAE-62.1 or 62.2 as applicable to the building configuration.  OPTIONAL  LOW-EMITTING MATERIALS Low VOC Paints and Coatings Specify and use paints and coatings rated at a minimum GPS-2 by the Master Painter's Institute on the interior of the building.  Low-Emitting Composite Wood Products Specify and install interior composite wood products, such as flooring, doors, trim, etc., that have no added urea formaldehyde. Cabinetry is excluded from this credit.  Low-Emitting Insulation Specify and install formaldehyde-free insulation on the interior of the building.  Low-Emitting Cabinetry	M M 2 2 2	M M 2 2 2	Maybe



# Sustainability | REAP Checklist - 4/4

		Performance Category: Construction (CON)	4	Points	
		The construction process can impose significant and lasting impact on the ecology of			
		both the site and beyond. The Construction credits acknowledge and reward contractors			
		who have followed best practices.			
			Score:	0	Mandatory points achieved
CON		MANDATORY			
	M1	Staging and Construction	M	M	
		Prepare and implement a staging and construction plan, including alternate detour			
		information and signage for pedestrians and cyclists.			
	M2	Vegetation Safeguards and Land-Clearing Debris	M	M	
		Prepare a site plan showing the sizes and locations of vegetation to be removed, retained			
		and salvaged, including plants located on adjacent public rights-of-way (see reference			
		guide) and develop a plan to effectively handle debris from land clearing and divert it from landfill disposal.			
		ilandilii disposal.			
	M3	Truck Management Plan	М	M	
	IVIO	Truck Management Plan Prepare and implement a comprehensive truck management plan for the project that	IVI	IVI	
		conforms to the UBC Strategic Transportation Plan and the Neighbourhood Plan			
		Development Guidelines.			
	M4	Wheel Wash	М	M	
		Provide a wheel wash for vehicles leaving the site or a street cleaning program and catch			
		basin protection.			
	M5	Erosion and Sedimentation Control	M	M	
		Prepare and implement a site sediment and erosion control plan that conforms to Best			
		Management Practices Guide for Stormwater: Appendix H – Construction Site Erosion			
		and Sediment Control Guide (GVSⅅ, October 1999).			
	M6	Waste Management Plan	М	M	
	""	Prepare and implement a waste management plan that diverts 75% (by weight) of	"		
		construction, demolition and land clearing waste from landfill.			
CON		OPTIONAL			1
CON	1	CONSTRUCTION IAQ MANAGEMENT PLAN			
	1.1	Indoor Air Quality Management Plan	2	0	Maybe
		Prepare and implement an Indoor Air Quality (IAQ) Management Plan for the construction			
		and pre-occupancy phases of the building.			
	1.2	Flushout	2	0	
	1.2	Conduct a minimum two-week continuous building flushout with new filtration media at		U	
		100% outside air after construction ends and prior to occupancy or conduct a baseline			
		indoor air quality test.			
		1 3			

		The intent of the Innovation & Design Process category is to provide incentive and credit for	Score:	13	Mandatory points achieved
ID		MANDATORY	JUJIE:	10	ivialidatory politis acitieved
	M1	Goal-Setting Workshop	М	M	
		Hold a goal setting workshop including the developer, design consultants and contractor			
		to review the Residential Environmental Assessment Program, set goals for the project			
		and assign responsibilities.			
	M2	Educate the Homeowner	М	M	
		Develop a homeowner's manual that promotes sustainable behavior and describes all of			
		the sustainable features of the project instructing the homeowner on their proper use.			
		This manual should be included in record drawings or some form that will be accessible			
		beyond the first generation of owner/resident.			
ID		OPTIONAL			
ID	1	INNOVATION IN MATERIALS			
	1.1	Life-Cycle Assessment	4	0	
		Perform a Life-Cycle Assessment of the project's structure and enclosure and		•	
		demonstrate a minimum of 5% improvement from a reasonable baseline building for			
		three environmental categories.			
ID	2	INTEGRATIVE AND UNIVERSAL DESIGN	<u> </u>		
יוו	2.1	Green Building Specialist	1	1	1
	2.1	Engage an expert in green buildings and sustainable construction practices to provide	'	'	
		advice on effective green building strategies to the design team.			
		author on oncoure groom building sublegies to the design team.			
	2.3	Design for Safety and Accessibility	1	0	
	2.3		' '	U	
		Demonstrate that at least 25% of the units in the building have been designed to meet			
		the SAFERhome standards (http://www.saferhomesociety.com/), which address issues of accessibility, children's safety, seniors and aging in place.			
			L_		
	2.2	Design for Security and Crime Prevention	2	0	
		Demonstrate that the design has been reviewed by an accredited Crime Prevention			
		Through Environmental Design (CPTED) practitioner .			
ID.	_	MARKET TRANSCORMATION	<u> </u>		
ID	3	MARKET TRANSFORMATION		_	1
	3.1	Educate the Sales Staff	1	1	
		Develop marketing materials based on the environmental performance of the project and			
		ensure the sales staff is aware of and knowledgeable about the green building features.			
ID	4	ACADEMIC LINKS	<u> </u>		
טו	4.1	Enhance Research or Further Student Development	5	5	1
	4.1	· · · · · · · · · · · · · · · · · · ·	,	3	
		Collaborate with UBC students and/or faculty on a research project or other opportunities			
		to enhance the academic mission of the University and integrate it with the community.  The research project should be concurrent with, and applicable to, the current project.			
		The research project should be concurrent with, and applicable to, the current project.			
	4.0	France: Data Charine			
	4.2	Energy Data Sharing	4	4	
		Incorporate a data sharing agreement into the sales contracts or strata constitution that			
		allows building aggregate energy data to be collected for use by the UBC Campus			
ID.	<u> </u>	Sustainability.			
ID	5	INNOVATIVE DESIGN			The control of the co
	5.1	Innovative Design or Exemplary Achievement	2	0	Maybe
		Demonstrate exceptional performance above the requirements set by one of the existing			Exterior Residents Courtyard
		credits or the implementation of an innovative design strategy not specifically addressed			
	1	by any of the existing credits.			
		I .			
				2	
	5.2	Innovative Design or Exemplary Achievement	2		
	5.2	Demonstrate exceptional performance above the requirements set by one of the existing	2		Bike Access Ramp
	5.2	Demonstrate exceptional performance above the requirements set by one of the existing credits or the implementation of an innovative design strategy not specifically addressed	2		Bike Access Ramp
	5.2	Demonstrate exceptional performance above the requirements set by one of the existing	2		Bike Access Ramp
	5.2	Demonstrate exceptional performance above the requirements set by one of the existing credits or the implementation of an innovative design strategy not specifically addressed	2		Bike Access Ramp
	5.2	Demonstrate exceptional performance above the requirements set by one of the existing credits or the implementation of an innovative design strategy not specifically addressed by any of the existing credits.	2	0	Bike Access Ramp  Maybe
		Demonstrate exceptional performance above the requirements set by one of the existing credits or the implementation of an innovative design strategy not specifically addressed			·
		Demonstrate exceptional performance above the requirements set by one of the existing credits or the implementation of an innovative design strategy not specifically addressed by any of the existing credits.  Innovative Design or Exemplary Achievement			Maybe
		Demonstrate exceptional performance above the requirements set by one of the existing credits or the implementation of an innovative design strategy not specifically addressed by any of the existing credits.  Innovative Design or Exemplary Achievement  Demonstrate exceptional performance above the requirements set by one of the existing			Maybe







# Itemized Responses to Development Application AUDP Comments

Item	Staff Comments / Recommendations	Applicant Response
1	Form, Articulation, Materiality, Colour	
1.1	There is still too much complexity in the use of colours and materials and the random application of them. Use colour	The application of colours and materials is used with the following rationale:
	to reinforce the building's form. One panel member felt the idea of the dark colour being up top and light colour below needs further consideration. Question having white fibre-cement panel as the dominate material, as it might make the building feel industrial or of lower quality. The proportions of fibre-cement panel to windows should be further considered.	<ul> <li>White fibre cement panels are used for the majority of the building façade. The neutral background brings out other colour accents and textures, creating a simple yet strong scheme.</li> </ul>
		<ul> <li>Grey fibre cement panels are used under the windows to balance the proportions of white panels to the darker window openings. The effect is to reduce the industrial/institutional feeling of the façade.</li> </ul>
		<ul> <li>Grey metal siding is used on the top two levels on the east wing, the elevator lobby and a portion of the west wing to create continuity.</li> </ul>
		<ul> <li>Wood textured sidings are used throughout the development to add interests to the soffit, balcony notch face of the clips, and window surrounds.</li> </ul>
		<ul> <li>Wood textured panel is used on the bridge element to create a picture frame to lighten up the connection piece. The infill glazing with translucent panels that are offset on each side is used to add some opaqueness and to create an interesting motif. The panel is also used for the clip faces.</li> </ul>
1.2	Simplify and rationalize the east wing massing. A panel member felt clarity is needed whether massing is being layered from a vertical or horizontal perspective.	The east wing massing on Level 5 and Level 6 has been reconfigured and simplified to better align with structure. The revised massing steps back to emphasize the 4-storey street datum created by the adjacent development to the east. The east wing massing also uses similar design approaches as the west wing portion to tie the entire development together.
1.3	Wood is not consistently used. Focus and simplification is needed. The random use of wood on the ground floor is	Wood accent materials are applied only at the following locations:
	not successful. Consider utilizing the wood balcony surrounds for solar shading.	<ul> <li>Wood textured sidings are applied to the soffits, balcony notches, inside face of the clips, and window surrounds.</li> <li>There are two approaches to where the siding is applied in the balcony notches:</li> </ul>
		<ul> <li>Massing with white fibre cement panels: the wood textured sidings are applied to the front face of the balcony notch and the soffit of the top level.</li> </ul>
		<ul> <li>Massing with grey metal siding: the wood texture sidings are applied to all three wall faces of the balcony notch and the soffit of the top level.</li> </ul>
		<ul> <li>Wood textured panel is used on the bridge and on the clip faces.</li> </ul>
1.4	Explore using solar management features on the south facing windows as a functional way to provide texture.	Shading device is added to the south face of the bridge element and the double-storey amenity space to minimize solar exposure.









Item	Staff Comments / Recommendations	Applicant Response
1.5	The vestibule facing the street is effective at semi-privatizing the entrance but looks stuck on. Stronger rationale and clarity is needed.	The continuation of material is used to tie the entrance facing the street together with the rest of the development. The directional hint of the horizontal wood accent siding applied along the entry creates a welcoming feeling for the pedestrians.
1.6	The ground plane experience at the units has an institutional feel the way it has been articulated.	Window openings are grouped using grey fibre cement panels and wood accent sidings to add more interest to the ground plane experience.
2	Bridge Expression	
2.1	Design development is needed on the bridge feature. Consider an artful expression such as a translucent glass pattern to increase the porosity of the space by making it open visually and lighter. Overlooking issues from the	Wood textured panel is used on the bridge element to create a picture frame to lighten up the connection piece. The frame also reduces overlooking issues to the adjacent living spaces.
	bridge to adjacent living spaces need to be addressed.	The infill glazing with translucent panels that are offset on each side is used to add some opaqueness and to create an interesting motif.
3	South Edge Interface	
3.1	The interface with Mundell Park has been well addressed. Consider pulling over the wooden seating area to align with the pathway down so there is more of a rationale for movement through and connectivity to the park. The amenity feels more like a civic-scaled development than a neighbourhood amenity.	The current design reflects our response to comments arising from the Pre-application AUDP presentation and concerns expressed by Campus Planning. We have pulled the stairs to the side of the seating steps to down play connectivity through the site. The current design also takes better advantage of the grade allowing less risers on this connection.
4	Interior Layout / Livability	
4.1	A panel member questioned whether two elevators were sufficient for the number of units especially on move in/out days.	Based on previous developments, two (2) elevators are sufficient for the number of units. The internal bridge connection creates weather protection and further convenience for residents living on the west wing, without feeling separate from the rest of the development.
		UBCPT has engaged with an elevator consultant and has confirmed two (2) elevators is sufficient.









Item	Staff Comments / Recommendations	Applicant Response
4.2	Some of the larger units have small/narrow living rooms for the number of people they will service.	From the survey result, feedback of larger bedrooms and smaller living spaces were received. UBCPT is exploring with a few unit types to address the feedback.
•••••		Unit layouts will be further explored and developed.
4.3	The ground floor vestibule, amenity, and guest suite space could be further resolved.	The layout of ground floor amenity and guest suite space has been explored and refined.
5	Family Oriented Amenities / Features, Landscape	
5.1	The bike racks located near the ground floor amenities room off the courtyard is a concern because of potential obstruction.	Bike rack location has been reviewed and relocated to less obstructed areas (along the courtyard entry, by the parkade ramp wall, and the courtyard steps at the southwest corner of the site).
5.2	Ensure the bike repair room has adequate daylighting, has a presence on the public realm and feels like a destination.	Clerestory window is provided in the bike repair room. The parkade entry along Scholar's Greenway is pulled back to create generous space and overhead cover for people with bike and/or stroller, etc.
5.3	For privacy, ensure all ground floor units (e.g. #117) have a green buffer and unit windows overlooking the bridge	Green buffer is added for all ground floor units.
•••••	feature are private.	The bridge element is refined to minimize overlooking issues to adjacent units.
5.4	Maximize social gathering opportunities on the roof decks.	The proposal provides both indoor and outdoor amenity spaces on the ground floor. Given the costs associated with providing roof area amenity, the project would need to forego both indoor and outdoor amenity spaces on the ground floor to provide a roof area amenity.
		In the current proposal, the level 5 and level 6 massing is reconfigured to create a better stepback form of the east wing. On the roof area created by the stepback, individual decks are provided for every residential unit on Level 5.
		In addition, adding a roof top patio on the 7th floor will classify the building as a high rise as per Ed Lin's comments at the initial C+CP pre-application meeting.
5.5	Some of the balconies are too small; appropriately sized balconies are needed, especially for larger units. Ensure the patio spaces on the ground floor are appropriately sized. Studio units #111 and #112 on the east wing ground floor do not have an equal allocation of outdoor space.	Balconies and patios are refined to provide generous outdoor living for each unit. A 6'-0" depth is ensured for all balconies/decks.
5.6	The public realm between the west wing on Weber Lane and the future 16-storey development needs further development. Consider the edge treatment and circulation in that space.	The public realm hard surface areas are already constructed. Further planting of the public realm adjacent the project will be designed and implemented at the completion of this project.









Item	Staff Comments / Recommendations	Applicant Response
5.7	Add a trellis to the pavilion to create a transition between covered and uncovered social spaces.	Outdoor pavilion is further refined to reflect the panel comments. A trellis is integrated into the pavilion design to create transition and shading.
5.8	To increase privacy for the private outdoor spaces, consider removing the secondary walkway between the ground floor units and common outdoor social area. Provide unit access through a series of pathways directly from the outdoor social area.	The current design is in response to Pre-application AUDP comments to provide for larger trees in the courtyard. An option where larger planters against the patios exiting out into the common space were explored. However, this created smaller planters that did not allow adequate soil volumes for larger trees and limited the overall number of trees. This option also created a long corridor connection between the unit and the courtyard space.  The current proposal provides a better separation between the unit and the courtyard, and at the same time provides more trees and various planting within the courtyard. The secondary walkway is minimized to 4'-0", which allows residents easy access to their units when the courtyard is being used by larger groups.
5.9	Simplify the circulation in the courtyard so there are fewer jogs in the plantings and the sightlines are more aligned.	The courtyard has been adjusted to accommodate responses to architectural changes and to simplify the layout.
5.10	Maximize opportunities for a playful landscape. Consider edible landscaping to bring interest and help create the feeling of being in the forest.	The landscape has been created with the intent to provide for a number of flexible uses. Planting design has been revised to include more variety of plantings and to incorporate a ground cover strawberry plant in areas of greater sun.
5.11	The planters are fairly shallow and tight. Consider using a drop slab to get more soil volume. Ensure all plantings have adequate soil volume for growth.	The planters have been designed to provide adequate soil volumes for the trees.  Minimum 28" depth has been provided for the majority of the planters.
5.12	Consider adding more diverse plant materials at the edge of the site to increase the sense of place and identity being close to Pacific Spirit Regional Park.	More native plantings will be added into the public realm around the project. The planting design has been changes to incorporate a greater diversity of plant type.
6	Chair Summary	
6.1	SUPPORT on the basis of applicant taking note of the panel's comments and resolving to the satisfaction of staff.	Acknowledged.
6.2	The panel acknowledged the budgetary challenges of creating faculty and staff housing below market rental.	Acknowledged.
6.3	Concerns about massing, simplification of secondary and tertiary expression and materials, and discipline in the use of colour.	Please review response to item 1.1, 1.2, and 1.3.
6.4	General support for the treatment of the south park wall.	Acknowledged.







Item	Staff Comments / Recommendations	Applicant Response
6.5	Some suggestions regarding the courtyard design; including the value of the secondary pathway to suites, and using a trellis to better integrate the open pavilion.	Please review response to item 5.7 and 5.8.
6.6	Ensure the units are livable and comfortable. Some living spaces are small. The balconies need to be appropriately sized.	Please review response to item 4.2 and 5.5.
6.7	The panel felt the proposal to allow self-expression for some tenants was not convincing.	Acknowledge. UBCPT to further explore self-expression through interior design process.
6.8	Consider opportunities for roof top access and maximize social gathering spaces.	Please review response to item 5.4.

# Itemized Responses to Development Review Committee (DRC) Comments

Item	Staff Comments / Recommendations	Applicant Response
1	DRC supports the project, subject to:	
1.1	Applicant to review the REAP credit for car share with the Green Building Manager.	Acknowledge. UBCPT has initiated conversations with UBC Sustainability.
1.2	Applicant to focus on educating the home owners (which is a REAP credit) to teach them how to recycle and to let them know that they are living in a sustainable designed building.	Acknowledge. UBCPT has initiated conversations with UBC Sustainability.
1.3	Applicant to confirm the sanitary peak flow numbers with Utilities.	Revised preliminary Utility Service Connection Application was sent to Jenny Liu on July 16, 2018, and the sanitary peak flow numbers were confirmed.
1.4	Applicant to work with the University Landscape Architect to finalize the location of outdoor bicycle racks.	The outdoor bike racks have been relocated within the property line, with the exception of 10 bikes near the intersection of Webber Lane and Scholar's greenway. This location was reviewed with the University Landscape Architect for preliminary approval, however the design team will continue to consult with the University Landscape Architect to finalize the locations of these Class II bike racks.
1.5	The site will need to provide detention for the 1:10 year storm at a 1:2 year release rate because the Birney Storm Sewer flows directly to Wesbrook Mall.	Acknowledged. This has been reviewed with the consultant team. Stormwater detention within the building parkade will be provided.
		Doug Doyle confirmed this will work.





