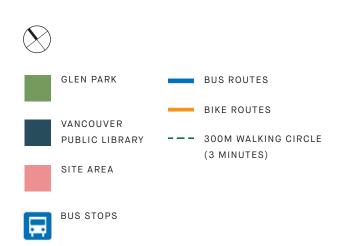
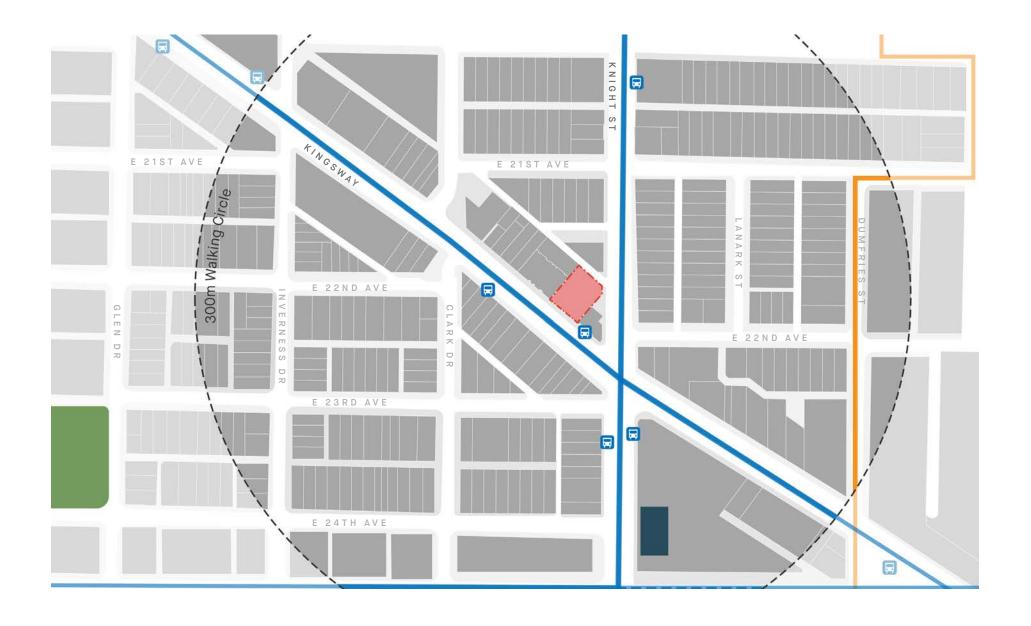
NEIGHBOURHOOD CONTEXT

The site is located at 1375-1379 Kingsway, on the south end of a triangular-shaped block at the corner of Kingsway and Knight Street. The rear of the site is also serviced by a Lane that runs from Knight Street towards East 21st Avenue. The site is currently zoned C-2 and is a consolidation of 3 separate lots, located between 2 existing 2-storey commercial developments, 1345 and 1387 Kingsway. Directly across the site along Kingsway are 3-4 storey commercial developments all of which fall under C-2 zoning. Across the Lane are 1-2 storey single-family developments currently zoned as RM-1N.

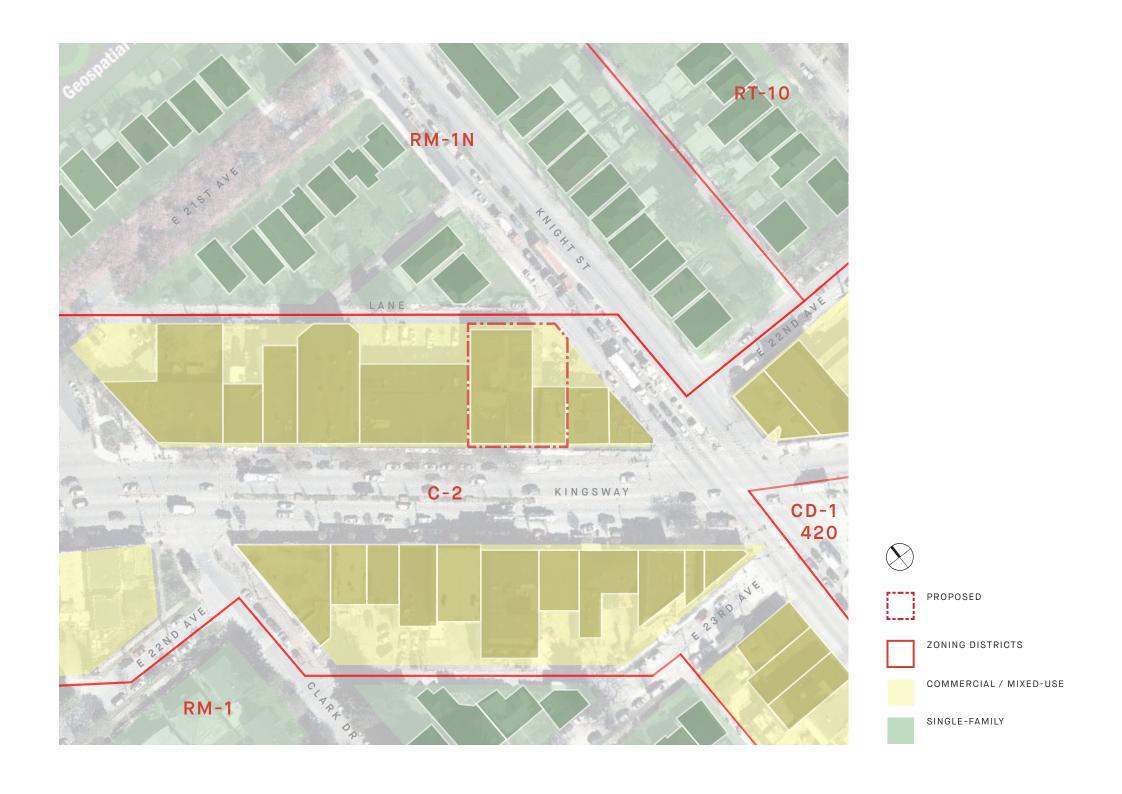
The site is in close proximity to both Glen Park and Kingcrest Park. To the North of the site is Tyee Elementary School, while to the west is, Lord Selkirk Elementary. Along Knight Street and King Edward Avenue is a Vancouver Public Library branch.

The site is well served by bus transit, north-south service along Knight Street, and eastwest along Kingsway.





ZONING + USAGE



BUILDING HEIGHTS



SITE PHOTOS



1 - Corner of Kingsway and Knight Street



4 - Lane behind subject site - neighbouring residential building



7 - Knight Street towards Kingsway - subject site on right



2 - Buildings across subject site along Kingsway



5 - Lane behind subject site



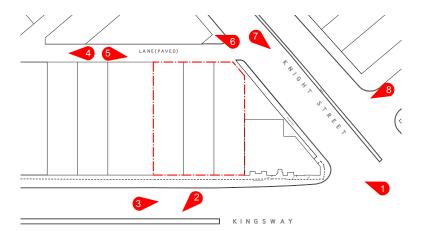
8 - Knight Street - subject site



3 - Subject site



6 - Lane behind subject site - neighbouring residential building



Key Plan



C-2 ZONING COMPARISON

While the proposed development is a Rezoning, we have used the C-2 Zoning Bylaw and Guidelines to inform the design.

The proposal meets the intent of the C-2 Guidelines by reinforcing the Kingsway streetwall with ground level retail and an enhanced pedestrian realm. Continuous weather protection will be provided along the Kingsway frontage, with the residential lobby canopy differentiated from the retail canopies.

The laneway is used for loading and access to parking, and two-level townhouses fronting the lane are proposed to maximize passive surveillance and lane activation. The building steps down towards the lane, and planted buffers are proposed on level 2 to maximize privacy for the adjacent single family home to the north.

VARIANCES TO THE C-2 ZONING

Density:

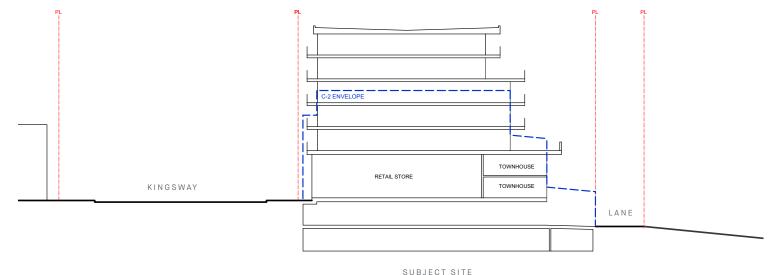
FSR of 3.80 proposed compared to 2.5 allowed within C-2.

The proposed Rezoning is providing 100% purpose-built market rental apartments as outlined in the Secured Market Rental Policy. The Policy states that projects providing 100% residential floor space for rental are eligible for additional floor area through a rezoning.

Height:

6 storeys and 78.98' (24.1M) compared to 4 storeys and 13.8M.

The proposed additional two storeys and height are the result of the additional 1.30 FSR applied to the property. The height of the retail space is optimized at 17.2' (5.2M), while the slope of the site allows us to incorporate two-level townhouses below the second level slab. The slope of the site results in a higher technical building height, however, our approach is to reduce the massing of the building towards the lane following the dimensions of the C-2 Zoning stepped setbacks.



1375-1379 KINGSWAY PUBLIC HEARING

5

DESIGN RATIONALE

SUSTAINABLE MEASURES

Performance Limits:

TEDI: 23.5 kWh/y/m2 - complies TEUI: 83.4 kWh/y/m2 - complies GHGI: 0.9 kgCO2/y/m2 - complies

This project will comply with the requirements of the City of Vancouver Green Building Policy for Rezoning (COV-GBPR)



611 Bent Court, New Westminster BC, Canada V3M 1V3

ER01

Date: November 25, 2020

To: Peterson – Tim Yeung / David Evans
Cc: Yamamoto Architecture Inc. – Taizo Yamamoto

Project: Peterson – Mixed-use Development ENERGY REPORT

1375 Kingsway, Vancouver, BC

Subject: ENERGY PERFORMANCE SIMULATION - REZONING

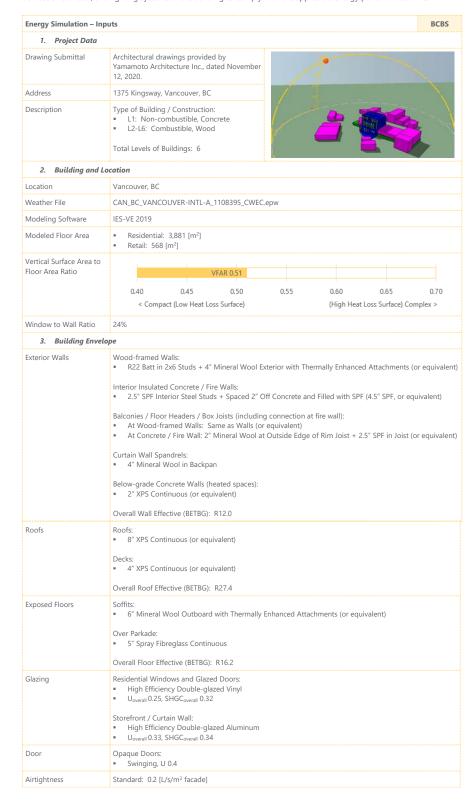
BC Building Science Ltd. (BCBS) has been retained as the Building Envelope and Energy Consultant for this project. The building has been modeled for compliance with the energy targets outlined in the City of Vancouver Green Building Policy for Rezoning (CoV-GBPR) and specifically, to the path B) Low Emissions Green Buildings – Section B.1.2. Requirements for the Performance Limits.

As the project is at a preliminary design stage and the detailed design of building envelope, mechanical, and electrical systems are not available yet, the basis of design of such systems is established to comply with the applicable energy and GHG targets. It is assumed that the building will be connected to a Low-Carbon Energy System in accordance with the Vancouver LCES Policy. Some of the assumptions in this energy submittal may change at later stages of the project when detailed designs of the contributing systems are developed.

The energy modeling has been executed in accordance with the City of Vancouver Energy Modeling Guideline Version 2.0 (CoV-EMG). Thermal bridging calculations have been performed based on the Building Envelope Thermal Bridging Guide Version 1.4 (BETBG). The building was modeled using IES-VE 2019 and the energy compliance results follow:

Energy Simulation – Results						
Metric	Requirement ¹	Proposed Design	Result			
Thermal Energy Demand Intensity (TEDI) [kWh/m²/y]	≤ 24.5	23.5	✓ Complies			
Total Energy Use Intensity (TEUI) [kWh/m²/y]	≤ 117.7	83.4	✓ Complies			
Greenhouse Gas Intensity (GHGI) [kgCO ₂ /m²/y]	≤ 3.1	0.9	✓ Complies			
Notes (*): 1. Area-averaged with the assumption of build						

The following table summarizes the preliminary requirements of the building envelope, heating, cooling, ventilation, domestic hot water, and lighting systems of the building to comply with the applicable energy performance limits.



4. Mechanical Syst	iems
Heating / Cooling	Suites / Amenity / Retail / Lobby: 4-Pipe Fan Coils Connected to Central Air Source Heat Pump (COP _H : 3+ & EER: 11+) (alternatively, air source VRF with similar COP / EER) Corridors: Central Air Source Heat Pump Make-up Air Unit (COP _H : 3+ & EER: 11+)
Ventilation	Suites: Direct Ventilation by Unitized HRV/ERV 80+% SRE at 32°F Continuous Operation: 15 [cfm/person], Not Less Than 0.35 ACH, Not Overventilated Amenity / Retail / Lobby: Direct Ventilation by Unitized HRV/ERV 80+% SRE at 32°F ASHRAE 62 Ventilation Rates, Not Overventilated Corridors: Pressurized at Maximum 20 cfm per Suite Door Heating LAT: 65°F Parking Areas: Supply and Exhaust Fans at 0.75 [cfm/ft²]
Service Hot Water	Hot Water Demand and Schedule: Suites: 0.0016 L/s/person, NECB 2011 Table A-8.4.3.2.(1)G Other: NECB 2011 Table A-8.4.3.3.(1)B Service Water Heating System: Central Air Source Heat Pump Water Heater (COP _H : 3+) with Electric Backup Boiler
5. Lighting System	s
Interior Lighting	Interior Lighting Power Density [W/m²], Schedule: Suites: 5.0, NECB 2011 Table A-8.4.3.2.(1)G Amenity: 4.0, NECB 2011 Table A-8.4.3.2.(1)C Corridor / Lobby: 4.0, 24/7 Stairway: 5.0, 24/7 Elec / Mech: 4.5, Appendix B of BC Hydro's Energy Modeling Guidelines Parking: 1.4, 24/7 Retail: 15.5, NECB 2011 Table A-8.4.3.2.(1)C (future tenant improvement, NECB 2015 - 4.2.1.6)
Exterior Lighting	1 kW, Astronomical Clock
6. Other	
Indoor Design Temperature	Suites: NECB 2011 Table A-8.4.3.2.(1)G Heating: 18-22°C Cooling: 24°C Other: NECB 2011 Table A-8.4.3.3.(1)B
Occupancy	Suites: Studio / 1-Bedroom: 2 People 1+ Bedroom: 1 Person per Additional Bedroom Schedule: NECB 2011 Table A-8.4.3.2.(1)G Other: NECB 2011 Table A-8.4.3.3.(1)B
Plug Loads (Receptacle)	Suites: 5.0 [W/m²], NECB 2011 Table A-8.4.3.2.(1)G Elevators: 2 x 3 kW, NECB 2011 Table A-8.4.3.2.(1)G 1 x 3 kW, NECB 2011 Table A-8.4.3.2.(1)C Other: NECB 2011 Table A-8.4.3.3.(1)B

Further energy modeling is required to ensure compliance with the performance limits at the building permit stage of the project when detailed designs of architectural, envelope, mechanical, and electrical systems are available. If any of the assumptions in the above table require alterations, other assumptions will be affected. It is crucial that any updates on the architectural, mechanical, or electrical designs of the building be confirmed with the energy modeling team to ensure preserving the energy compliance throughout the design and construction phases.

Note that the results of this energy simulation are for the purpose of energy compliance with the applicable performance limits and are not representatives of the actual energy consumption of the proposed buildings. The real energy consumption of the building may differ from these results as the assumptions are based on the typical operating conditions applicable from the standards and guidelines which may or may not represent the real occupant behavior and usage of the building.

We look forward to the successful completion of this project. If there are any questions, please contact our office.

Respectfully Submitted, BC Building Science



eviewed by:

Farshid Bagheri P.Eng., Ph.D., CEA, CBCP



1375-1379 KINGSWAY

PUBLIC HEARING

SUSTAINABLE MEASURES

CITY OF		Building Plar					
Please complete all fields that apply to the project, using information yet, please enter "N/A". Refer to the lat							
	Project Info	ormation (enter	all that apply)				
Project Address Secondary Address		, Vancouver					
Project Working Title Gross Floor Area indicated on Arch. Drawings (m²)	Mixed-use Dev	elopment					
Parkade Area (m²)	1,889						
For building types with Performance Limits, enter this	_	mation and Per is section	formance Limi Rezoning or	its City-Recognized Low		Limits	
Building Type(s)	Modelled Floor		VBBL only?	Carbon Energy System?	TEUI	TEDI	GHGI
Residential <7 storeys (Group C except Hotel) Retail (Group D & E except Office)	3,881 568		Rezoning Rezoning	Yes Yes	110 170 0	25 21 0	5 3 0
Total	4,450		TEDI limit	for this portion of building	U	24.5	U
For other building types, create a baseline energy model Building Type	to establish limi Modelled Floor		information in Rezoning?	this section			
Enter Other Building Type Baseline Model Performance	Energy (kWh)	Em. Factor	Emissions (kg	CO2e)	TEUI	TEDI	GHGI
Total Annual Electricity Use		0.011	-	Baseline:	0	0	0
Total Annual Natural Gas Use Total Annual District Energy Use		0.185 0.070	-	Target:	0	0	0
Total	-	3.370	-				
Total Annual Heat Demand - for TEDI					TEUI	TEDI	GHGI
Total Modelled Floor Area (m²) Modelled Floor Area within 5% of Gross Floor Area?	4,450 Yes		Whole-Bu	uilding Performance Limits	117.7	24.5	4.
		ed Building Per					
Interior Lighting	Energy (kWh) 112,784	Fuel Type Electricity	Em. Factor 0.011	Emissions (kgCO2e) 1240.624	TEUI 25.3		GHGI
Exterior Lighting	4,253	Electricity	0.011	46.7775	1.0		C
Heating Cooling		Electricity Electricity	0.011 0.011	589.5208 328.7955	12.0 6.7		0
Pumps		Electricity	0.011	35.3287	0.7		C
Fans	47,281	Electricity	0.011	520.0877	10.6		C
Domestic Hot Water Plug Loads		Electricity Electricity	0.011 0.011	465.5794 1130.3215	9.5 23.1		0
Enter other end use here							
Total Annual Electricity Use	396,094	0.011	4,357				
Total Annual Natural Gas Use		0.185	-				
Total Annual District Energy Use Total		0.070	- 4,357				
Total Electricity Generated On-Site (kWh)		% of Use	0.0%				
Total Purchased Renewable Electricity (kWh)	-	% of Use	0.0%				
Total Purchased Renewable Natural Gas (kWh) Note: purchaes renewables used to demonstrate		% of Use at be secured to	0.0% satisfaction of A	AHJ			
Adjusted Electricity Emissions Factor (kgCO2e/kWh)	0.011						
Adjusted Natural Gas Emissions Factor (kgCO2e/kWh)	0.185						
Annual Heat Demand of portions with Perf. Limits (kWh) Total Annual Heat Demand - for TEDI (kWh)						31.0	
Total Annual Heat Demand - for TEDI (kWh) Total Annual Cooling Demand - <i>for info only</i> (kWh)		16.0	kWh/m²				
			Modelled Wi	nole-Building Performance	TEUI 89.0	TEDI 31.0	GHGI 1
Corridor Pressurization	Adjustment						
Heating Degree Days	2825						
Number of Suite Doors Pressurized Airflow for Pressurization per Door (L/s/door)							
Airliow for Pressurization per Door (L/s/door) Area of Corridors Pressurized (m²)							
Make-Up Air Fuel Type	Electricity		Adjustment	ts for Corridor Pressurization	TEUI 7.5	TEDI 7.5	GHG 0
Make-Up Air Emissions Factor Suite-level Metering for Space Heating	No		justments for S	Suite Submetering of Heating	7.5 1.8	7.5	
Note: select yes if the energ	y used for heatin	g is metered at t	the suite level				
				nce of Portions with Limits		23.5	
		Adjusted Who	le-Building Pe	rformance for Compliance	83.4	23.5	0.

Does this building have full mechanical cooling? Yes (if yes, this section may be left blank) (if yes, the overheated hours limit is 20hrs rather than 200hrs) (if yes, the overheated hours limit is 20hrs rather than 200hrs) (if yes, the overheated hours limit is 20hrs rather than 200hrs) (if yes, the overheated hours limit is 20hrs rather than 200hrs) (if yes, the overheated hours limit is 20hrs rather than 200hrs) (if yes, the overheated hours limit is 20hrs rather than 200hrs) (if yes, the overheated hours limit is 20hrs rather than 200hrs) (if yes, the overheated hours limit is 20hrs rather than 200hrs) (if yes, the overheated hours limit is 20hrs rather than 200hrs) (if yes, the overheated hours limit is 20hrs rather than 200hrs) (if yes, the overheated hours limit is 20hrs rather than 200hrs) (if yes, the overheated hours limit is 20hrs rather than 200hrs) (if yes, the overheated hours limit is 20hrs rather than 200hrs) (if yes, the overheated hours limit is 20hrs rather than 200hrs) (if yes, the overheated hours limit is 20hrs rather than 200hrs) (if yes, the overheated hours limit is 20hrs rather than 200hrs) (if yes, the overheated hours limit is 20hrs rather than 200hrs) (if yes, the overheated hours limits is 20hrs rather than 200hrs) (if yes, the overheated hours limits is 20hrs rather than 200hrs) (if yes, the overheate		Passive Cool	ing and Overh	eating Analys	is	
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Overheated Hours Peak Temp.(°C) Critical Zone #1 Critical Zone #2 Optional - Critical Zone #3 Optional - Critical Zone #4 Optional - Critical Zone #4 Optional - Critical Zone #5 Modelled Inputs Modelled Inputs Modelled Above-Ground Wall Area (m²) 2,258 Window-to-Wall Area Ratio (WWR) 24% Window-to-Floor Area Ratio (VFAR) 0,51 Unfiltration Rate (L/s/m² _{tac}) 0.2 Wall Effective R-Value - incl. thermal bridging (m²k/W) 4.8 27.40 (ft²hr²F/Btu) Average Floor Edge Psi-Value (W/m²k) 0.12 Roof Effective R-Value - incl. thermal bridging (m²k/W) 4.8 27.40 (ft²hr²F/Btu) Avg. Window Transition Psi-Value (W/m²k) 0.1 Average Window Effective U-Value (W/m²k) 1.55 0.27 (Btu/ft²hr²F) Window Solar Heat Gain Coefficient 0.33 Average Suite Occupant Density (m²pers) 27 Average Suite Ventilation Rate (L/s/m²) 0.3 DHW Low-Flow Savings (%) 0 Average Suite Ventilation Rate (L/s/m²) 0.3 DHW Drain Heat Recovery Effectiveness 80% Heating System Type (fuel, plant, distribution, etc.) 4-Pipe Fan Coils Connected to Central Air Source Heat Pump (or VRF) DHW System Type (fuel, plant, distribution, etc.) 4-Pipe Fan Coils Connected to Central Air Source Heat Pump (or VRF) DHW System Type (fuel, plant, distribution, etc.) 4-Pipe Fan Coils Connected to Central Air Source Heat Pump (or VRF) DHW System Type (fuel, plant, distribution, etc.) 4-Pipe Fan Coils Connected to Central Air Source Heat Pump (or VRF) DHW System Type (fuel, plant, distribution, etc.) 4-Pipe Fan Coils Connected to Central Air Source Heat Pump (or VRF) DHW System Type (fuel, plant, distribution, etc.) 4-Pipe Fan Coils Connected to Central Air Source Heat Pump (or VRF) DHW System Type (fuel, plant, distribution, etc.) 4-Pipe Fan Coils Connected to Central Air Source Heat Pump (or VRF) DHW System Type (fuel, plant, distribution, etc.) 4-Pipe Fan Coils Connected to Central Air Source Heat Pump (or VRF) DHW System Type (fuel, plant, distribution, etc.) 4-Pipe Fan Coils Connected to Central Air Source Heat Pump (or VRF) DHW System Type (fuel, plant, distribution, etc.) 4-Pipe Fa	Does this building house vulnerable populations?		(if yes, the ove	rheated hours	limit is 20hrs rather than 200hrs)	
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Window-to-Wall Area Ratio (WWR) Infiltration Rate (L/s/m² _{fac}) Wall Effective R-Value - incl. thermal bridging (m²K/W) Roof Effective R-Value - incl. thermal bridging (m²K/W) Average Window Effective U-Value (W/m²K) Average Window Effective U-Value (W/m²K) Average Suite Occupant Density (m²/pers) Average Suite Ventilation Rate (L/s/m²) Average Suite Ventilation, etc.) 4-Pipe Fan Coils Connected to Central Air Source Heat Pump (or VRF) Cooling System Type (fuel, plant, distribution, etc.) DHW System Type (fuel, plant, distribution, etc.) Solar Shading Strategies (type, location, operation, etc.) Modeller Information Farshid Bagheri, P.Eng			Modelled Inpu	its		
Window-to-Wall Area Ratio (WWR) Infiltration Rate (L/s/m² _{fac}) Wall Effective R-Value - incl. thermal bridging (m²K/W) Roof Effective R-Value - incl. thermal bridging (m²K/W) Average Window Effective U-Value (Wm²K) Average Window Effective U-Value (Wm²K) Average Suite Occupant Density (m²/pers) Average Suite Ventilation Rate (L/s/m²) Average Suite Ventilation Rate (L/s/m²) Average Suite Ventilation Rate (L/s/m²) Average HRV Effectiveness Heating System Type (fuel, plant, distribution, etc.) A-Pipe Fan Coils Connected to Central Air Source Heat Pump (or VRF) DHW System Type (fuel, plant, distribution, etc.) Physical Plant (distribution, etc.) A-Pipe Fan Coils Connected to Central Air Source Heat Pump (or VRF) DHW System Type (fuel, plant, distribution, etc.) A-Pipe Fan Coils Connected to Central Air Source Heat Pump (or VRF) Cooling System Type (fuel, plant, distribution, etc.) A-Pipe Fan Coils Connected to Central Air Source Heat Pump (or VRF) DHW System Type (fuel, plant, distribution, etc.) A-Pipe Fan Coils Connected to Central Air Source Heat Pump (or VRF) DHW System Type (fuel, plant, distribution, etc.) Bolistributed Balconies at Each Floor Modeller Information Farshid Bagheri, P.Eng	Modelled Above-Ground Wall Area (m²)	2,258			Vertical facade-to-Floor Area Ratio	VFAR) 0.51
Wall Effective R-Value - incl. thermal bridging (m²K/W) 2.1 12.00 (ft²hr°F/Btu) Average Floor Edge Psi-Value (W/m°K) 0.12 Roof Effective R-Value - incl. thermal bridging (m²K/W) 4.8 27.40 (ft²hr°F/Btu) Avg. Window Transition Psi-Value (W/m°K) 0.1 Average Window Effective U-Value (W/m²e/K) 1.55 0.27 (Btu/ft²hr°F) Window Solar Heat Gain Coefficient 0.33 Average Suite Occupant Density (m²/pers) 27 Average Lighting W/m² 6 Average Suite Ventilation Rate (L/s/m²) 0.3 DHW Low-Flow Savings (%) 0 Average HRV Effectiveness 80% DHW Drain Heat Recovery Effectiveness 0% Heating System Type (fuel, plant, distribution, etc.) 4-Pipe Fan Coils Connected to Central Air Source Heat Pump (or VRF) Cooling System Type (fuel, plant, distribution, etc.) 4-Pipe Fan Coils Connected to Central Air Source Heat Pump (or VRF) DHW System Type (fuel, plant, distribution, etc.) Central Air Source Heat Pump Water Heater Solar Shading Strategies (type, location, operation, etc.) Distributed Balconies at Each Floor Modeller Information Farshid Bagheri, P.Eng	Window-to-Wall Area Ratio (WWR)	24%			Window-to-Floor Are	a Ratio 0.12
Roof Effective R-Value - incl. thermal bridging (m²K/W) Average Window Effective U-Value (W/m²K) Average Suite Occupant Density (m²/pers) Average Suite Ventilation Rate (L/s/m²) Average Suite Ventilation Rate (L/s/m²) Average HRV Effectiveness Heating System Type (fuel, plant, distribution, etc.) Cooling System Type (fuel, plant, distribution, etc.) DHW System Type (fuel, plant, distribution, etc.) DHW System Type (fuel, plant, distribution, etc.) Solar Shading Strategies (type, location, operation, etc.) Modeller Information Modeller Name Farshid Bagheri, P.Eng	Infiltration Rate (L/s/m² _{fac})	0.2				
Average Window Effective U-Value (W/m²°K) Average Suite Occupant Density (m²/pers) Average Suite Ventilation Rate (L/s/m²) Average Suite Ventilation Rate (L/s/m²) Average HRV Effectiveness Heating System Type (fuel, plant, distribution, etc.) Cooling System Type (fuel, plant, distribution, etc.) Solar Shading Strategies (type, location, operation, etc.) Modeller Information Farshid Bagheri, P.Eng	Wall Effective R-Value - incl. thermal bridging (m²K/W)	2.1	12.00	(ft²hr°F/Btu)	Average Floor Edge Psi-Value (\	V/m°K) 0.12
Average Suite Occupant Density (m²/pers) 27 Average Lighting W/m² 6 Average Suite Ventilation Rate (L/s/m²) 0.3 DHW Low-Flow Savings (%) 0 Average HRV Effectiveness 80% DHW Drain Heat Recovery Effectiveness 0% Heating System Type (fuel, plant, distribution, etc.) 4-Pipe Fan Coils Connected to Central Air Source Heat Pump (or VRF) Cooling System Type (fuel, plant, distribution, etc.) 4-Pipe Fan Coils Connected to Central Air Source Heat Pump (or VRF) DHW System Type (fuel, plant, distribution, etc.) Central Air Source Heat Pump Water Heater Solar Shading Strategies (type, location, operation, etc.) Distributed Balconies at Each Floor Modeller Information Farshid Bagheri, P.Eng						
Average Suite Ventilation Rale (L/s/m²) Average HRV Effectiveness 80% DHW Drain Heat Recovery Effectiveness Now DHW Drain Heat Recovery Effectiveness 4-Pipe Fan Coils Connected to Central Air Source Heat Pump (or VRF) Cooling System Type (fuel, plant, distribution, etc.) DHW System Type (fuel, plant, distribution, etc.) Contral Air Source Heat Pump (or VRF) DHW System Type (fuel, plant, distribution, etc.) Solar Shading Strategies (type, location, operation, etc.) Modeller Information Farshid Bagheri, P.Eng	Average Window Effective U-Value (W/m²°K)	1.55	0.27	(Btu/ft²hr°F)	Window Solar Heat Gain Coe	efficient 0.33
Average HRV Effectiveness 80% DHW Drain Heat Recovery Effectiveness 0% Heating System Type (fuel, plant, distribution, etc.) 4-Pipe Fan Coils Connected to Central Air Source Heat Pump (or VRF) Cooling System Type (fuel, plant, distribution, etc.) 4-Pipe Fan Coils Connected to Central Air Source Heat Pump (or VRF) DHW System Type (fuel, plant, distribution, etc.) Central Air Source Heat Pump (or VRF) Solar Shading Strategies (type, location, operation, etc.) Distributed Balconies at Each Floor Modeller Information Modeller Name Farshid Bagheri, P.Eng	Average Suite Occupant Density (m²/pers)	27			Average Lighting	g W/m² 6
Heating System Type (fuel, plant, distribution, etc.) 4-Pipe Fan Coils Connected to Central Air Source Heat Pump (or VRF) Cooling System Type (fuel, plant, distribution, etc.) 4-Pipe Fan Coils Connected to Central Air Source Heat Pump (or VRF) DHW System Type (fuel, plant, distribution, etc.) Central Air Source Heat Pump Water Heater Solar Shading Strategies (type, location, operation, etc.) Distributed Balconies at Each Floor Modeller Information Modeller Name Farshid Bagheri, P.Eng						
Cooling System Type (fuel, plant, distribution, etc.) 4-Pipe Fan Coils Connected to Central Air Source Heat Pump (or VRF) DHW System Type (fuel, plant, distribution, etc.) Central Air Source Heat Pump Water Heater Solar Shading Strategies (type, location, operation, etc.) Distributed Balconies at Each Floor Modeller Information Modeller Name Farshid Bagheri, P.Eng	Average HRV Effectiveness	80%			DHW Drain Heat Recovery Effecti	veness 0%
DHW System Type (fuel, plant, distribution, etc.) Central Air Source Heat Pump Water Heater Solar Shading Strategies (type, location, operation, etc.) Distributed Balconies at Each Floor Modeller Information Modeller Name Farshid Bagheri, P.Eng						
Solar Shading Strategies (type, location, operation, etc.) Distributed Balconies at Each Floor Modeller Information Modeller Name Farshid Bagheri, P.Eng					urce Heat Pump (or VRF)	
Modeller Information Modeller Name Farshid Bagheri, P.Eng	DHW System Type (fuel, plant, distribution, etc.)	Central Air Sour	ce Heat Pump	Water Heater		
Modeller Name Farshid Bagheri, P.Eng	Solar Shading Strategies (type, location, operation, etc.)	Distributed Balo	onies at Each I	-loor		
		M	odeller Informa	ation		
	Modeller Name	Farehid Ragher	i P Eng			
☑ These results have been created using the COV Energy Modelling Guidelines version: 2	Wiodeliei Name			been created	using the COV Energy Modelling Guidelines y	ersion: 2
Company BC Building Science Ltd.	Company				and an are a second of the sec	
Phone Number 604 520 6456 Ext 133						
Email farshid@bcbuildingscience.com	Email	farshid@bcbuild	lingscience.cor	n		
ZEBP Energy Checklist v1.7 - 2019-08-10					ZEBP Energy Che	ecklist v1.7 - 2019-08-10

1375-1379 KINGSWAY PUBLIC HEARING 7

AERIAL PERSPECTIVES



RENDERINGS



Street level view of proposed building along Kingsway

RENDERINGS

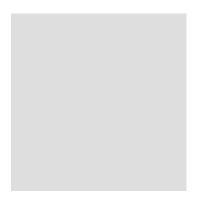


Street level view of proposed building along Lane

MATERIAL PALETTE



NORTHEAST CORNER OF BUILDING



PAINTED CONCRETE (SIDE WALLS + LOWEST LANE LEVEL)



CLADDING CEMENTITIOUS PANELS (BACK)



CLADDING CEMENTITIOUS PANELS (FRONT)



CANOPY + SOFFIT WOOD (RESIDENTIAL)



STEEL CANOPY WITH GLAZING (RETAIL)



STOREFRONT WINDOWS (RETAIL)



VINYL WINDOWS (RESIDENTIAL)



GUARDRAILS CLEAR GLASS W/ FROSTED BAND

ARCHITECTURE

PROJECT STATISTICS

CIVIC ADDRESS: 1375-1379 KINGSWAY, VANCOUVER, BC

CURRENT ZONING:

TOTAL SITE AREA: 1,115.8 SQ.M. (12,010.0 SQ.FT.) (0.276 ACRES)

892 SQ.M. (9,601 SQ.FT.) PROPOSED:

BUILDING HEIGHT PROPOSED:

(78.98 FT)

FLOOR SPACE RATIO EXISTING ZONING / ALLOWABLE

30,025.0 SQ.FT.

45,591.0 SQ.FT. 3.80 FSR

LOOR AREA SU	JMM/	<u>ARY</u>							<u>UNIT</u>	COU	<u>NT</u>			
FLOOR		CRU	RESIDENTIAL	(STORAGE)	(BALCONY)	(AMENITY)	REST. SHAFT EXCL.	SUBTOTAL	STUDIO	1BR	2BR	3BR	TOTAL	
8 UNIT / FL.	6F		6,573 SQFT	(240 SQFT)			(16 SQFT)	6,317 SQFT	3	1	4	0	8	
8 UNIT / FL.	5F		6,573 SQFT	(240 SQFT)			(16 SQFT)	6,317 SQFT	3	1	4	0	8	
10 UNIT / FL.	4F		7,357 SQFT	(358 SQFT)			(16 SQFT)	6,983 SQFT	5	3	2	0	10	
10 UNIT / FL.	3F		7,357 SQFT	(358 SQFT)			(16 SQFT)	6,983 SQFT	5	3	2	0	10	
9 UNIT / FL.	2F		7,357 SQFT	(318 SQFT)		(485 SQFT)	(16 SQFT)	6,538 SQFT	4	3	2	0	9	
1 UNIT / FL. M	EZZ		4,240 SQFT	(40 SQFT)				4,200 SQFT	0	0	1	0	1	
3 UNIT / FL.	1F	5,874 SQFT	2,419 SQFT	(40 SQFT)				8,253 SQFT	0	0	0	3	3	
TOTAL		5,874 SQFT	41,876 SQFT	(1,594 SQFT) 9	UNITS WITHOUT	(485 SQFT)	(80 SQFT)	45,591 SQFT	20	11	15	3	49	PROVIDED
				IN	SUITE STORAGE	` '	GROSS	47,750 SQFT	40.8 %	22.4 %	30.6 %	6.1 %		
SITE AREA		12,010 SQFT					_							
								3.80 (FSR)						
REAS IN BRACKETS ARE	EXCLL	IDED FROM ESR												

1375 KINGSWAY: FLOOR AREA SUMMARY

NAME	GROUND FLOOR	MEZZANINE FLOOR	2ND FLOOR	3RD FLOOR	4TH FLOOR	5TH FLOOR	6TH FLOOR	TOTAL
Commercial Area sq ft	5,874.0 sq ft	0.0 sq ft	0 sq ft	5,874.0 sq ft				
Residential Area	2,419.0 sq ft	4,240.0 sq ft	7,357.0 sq ft	7,357.0 sq ft	7,357.0 sq ft	6,573.0 sq ft	6,573.0 sq ft	41,876.0 sq ft
Amenity Area Exclusion	0.0 sq ft	0.0 sq ft	485.0 sq ft	0.0 sq ft	0.0 sq ft	0.0 sq ft	0.0 sq ft	485.0 sq ft
Storage Area Exclusion	40.0 sq ft	40.0 sq ft	318.0 sq ft	358.0 sq ft	358.0 sq ft	240.0 sq ft	240.0 sq ft	1,594.0 sq ft
Restaurant Shaft Exclusion	0.0 sq ft	0.0 sq ft	16.0 sq ft	16.0 sq ft	16.0 sq ft	16.0 sq ft	16.0 sq ft	80.0 sq ft
Net Area	8,253.0 sq ft	4,200.0 sq ft	6,538.0 sq ft	6,983.0 sq ft	6,983.0 sq ft	6,317.0 sq ft	6,317.0 sq ft	45,591.0 sq ft
Balcony Area Exclusion	0.0 sq ft	361.0 sq ft	200.0 sq ft	969.0 sq ft	1035.0 sq ft	969.0 sq ft	960.0 sq ft	4,494.0 sq ft

SECURED MARKET RENTAL HOUSING - RESIDENTIAL, PARKING BYLAW 4.5.B1

RESIDENTIAL STALLS REQUIRED (MINIMUM) 1 SPACE FOR EACH 125 SQ.M. OF GFA	RESIDENTIAL SPACES	=	30 SPACES	
TRANSIT REDUCTION (PER SECTION 3.2.2, TDM2040)	20% OF TOTAL SPACES		6 SPACES	
	TOTAL RESIDENT PARKING:		24 SPACES	
0.05 PER UNIT (PER 4.1.16)	VISITOR SPACES TOTAL RESIDENT + VISITOR PARKING:	-	2 SPACES (MIN	IMILIMA
	TOTAL RESIDENT + VISITOR PARKING .		20 SPACES (WIIIV	IIVIOIVI)
RESIDENTIAL STALLS REQUIRED (MAXIMUM)				
TOTAL ALLOWED +.5 SPACES PER UNIT 0.1 PER UNIT (PER 4.1.16)	RESIDENTIAL SPACES VISITOR SPACES	=	55 SPACES 5 SPACES	
J.1 PER UNIT (PER 4.1.16)	TOTAL RESIDENT + VISITOR PARKING :	_	59 SPACES (MAX	KIMUM)
				,
546 SQ.M. RETAIL STALLS REQUIRED				
	+ 1 SPACE / 50 SM ADDITIONAL	=	8 SPACES	
REDUCTION - PROXIMITY TO TRANSIT	10% OF TOTAL SPACES		1 SPACE	
	TOTAL COMMERCIAL REQUIRED :		7 SPACES	
ACCESSIBLE STALLS REQUIRED				
	+ 0.034 SPACES / EACH ADDITIONAL UNIT:	=	2 SPACES	
COMMERCIAL AS PER 4.8.4(b):	1 + 0.4 SPACES/1000 SM: TOTAL ACCESSIBLE REQUIRED :	-	1 SPACE 3 SPACES	
	. S E. AOGEOGIBEE REQUIRED .		J OI AOLO	
	TOTAL PARKING (MINIMUM):	=	33 SPACES	
	TOTAL PARKING (MAXIMUM):	=	66 SPACES	
RESIDENT. SMALL PARK'G SPACES ALLOWED AS PER 4.1.	.8: 25% OF TOTAL RESIDENT. PROVIDED:	=	6 SPACES OF TO	TAL (MAXIMUM)
COMM. SMALL PARK'G SPACES ALLOWED AS PER 4.1.8:	25% OF TOTAL COMM. PROVIDED:	=	2 SPACES OF TO	
MIN. ELECTRIC VEHICLE CHARGING STALLS	100% OF RESIDENTIAL SPACES	=	26 SPACES OF TO	TAL (MAINIMALIMA)
WIN. ELECTRIC VEHICLE CHARGING STALLS	100 % OF RESIDENTIAL SPACES	-	20 SPACES OF TO	TAL (MINIMOWI)
PARKING PROVIDED RESIDENTIAL STALLS			24 SPACES	
VISITOR STALLS			2 SPACES	
COMMERCIAL STALLS			8 SPACES	
	TOTAL PARKING PROVIDED:		34 SPACES	
RESIDENTI	AL SMALL PARKING SPACES PROVIDED:	=	0 SPACES	0 % OF REQ.
	AL SMALL PARKING SPACES PROVIDED:	=	0 SPACES	0 % OF REQ.
	ELECTRIC VEHICLE SPACES PROVIDED:	=	24 SDACES	100 % OF SPACES
	ELECTRIC VEHICLE SPACES PROVIDED:	=	24 SPACES	100 % OF SPACES
	AL ACCESSIBLE SPACES PROVIDED:	=	2 SPACES	
COMMERCIA	AL ACCESSIBLE SPACES PROVIDED:	=	1 SPACES	
PASSENGER STALLS REQUIRED				
RESIDENTIAL AS PER 7.2.1: 1 FOR FIRST 50 - 125 UN	NTS		1 SPACE	
LOADING:				
LOADING:			DECLUBED	PD0/4P5P
			REQUIRED	PROVIDED
DWELLING USE	NO REQUIREMENT	=	REQUIRED 0 SPACES	PROVIDED 0 SPACES
DWELLING USE CLASS A AS PER 5.2.1: CLASS B AS PER 5.2.1:	NONE FOR LESS THAN 100 UNITS	=	0 SPACES 0 SPACE	0 SPACES 0 SPACE
DWELLING USE CLASS A AS PER 5.2.1: CLASS B AS PER 5.2.1:	NONE FOR LESS THAN 100 UNITS NO REQUIREMENT		0 SPACES 0 SPACE 0 SPACES	0 SPACES 0 SPACE 0 SPACES
DWELLING USE CLASS A AS PER 5.2.1: CLASS B AS PER 5.2.1: CLASS C AS PER 5.2.1:	NONE FOR LESS THAN 100 UNITS	=	0 SPACES 0 SPACE	0 SPACES 0 SPACE
DWELLING USE CLASS A AS PER 5.2.1: CLASS B AS PER 5.2.1: CLASS C AS PER 5.2.1: 542 SQ.M. COMMERCIAL (RETAIL)	NONE FOR LESS THAN 100 UNITS NO REQUIREMENT TOTAL:	=	0 SPACES 0 SPACE 0 SPACES 0 SPACE	0 SPACES 0 SPACE 0 SPACES 0 SPACE
DWELLING USE CLASS A AS PER 5.2.1: CLASS B AS PER 5.2.1: CLASS C AS PER 5.2.1: 542 SO.M. COMMERCIAL (RETAIL) CLASS AS PER 5.2.5:	NONE FOR LESS THAN 100 UNITS NO REQUIREMENT TOTAL: NO REQUIREMENT	=	0 SPACES 0 SPACE 0 SPACES 0 SPACE	0 SPACES 0 SPACE 0 SPACES 0 SPACE
DWELLING USE CLASS A AS PER 5.2.1: CLASS B AS PER 5.2.1: CLASS C AS PER 5.2.1: 542 SQ.M. COMMERCIAL (RETAIL) CLASS A AS PER 5.2.5:	NONE FOR LESS THAN 100 UNITS NO REQUIREMENT TOTAL: NO REQUIREMENT 1 SPACE FOR FIRST 465 SQ.M.	=	0 SPACES 0 SPACE 0 SPACES 0 SPACE	0 SPACES 0 SPACE 0 SPACES 0 SPACE
LOADING: DWELLING USE CLASS A AS PER 5.2.1: CLASS B AS PER 5.2.1: CLASS CAS PER 5.2.1: 542 SO.M. COMMERCIAL (RETAIL) CLASS AS PER 5.2.5: CLASS B AS PER 5.2.5: CLASS C AS PER 5.2.5: CLASS C AS PER 5.2.5:	NONE FOR LESS THAN 100 UNITS NO REQUIREMENT TOTAL: NO REQUIREMENT	=	0 SPACES 0 SPACE 0 SPACES 0 SPACE	0 SPACES 0 SPACE 0 SPACES 0 SPACE

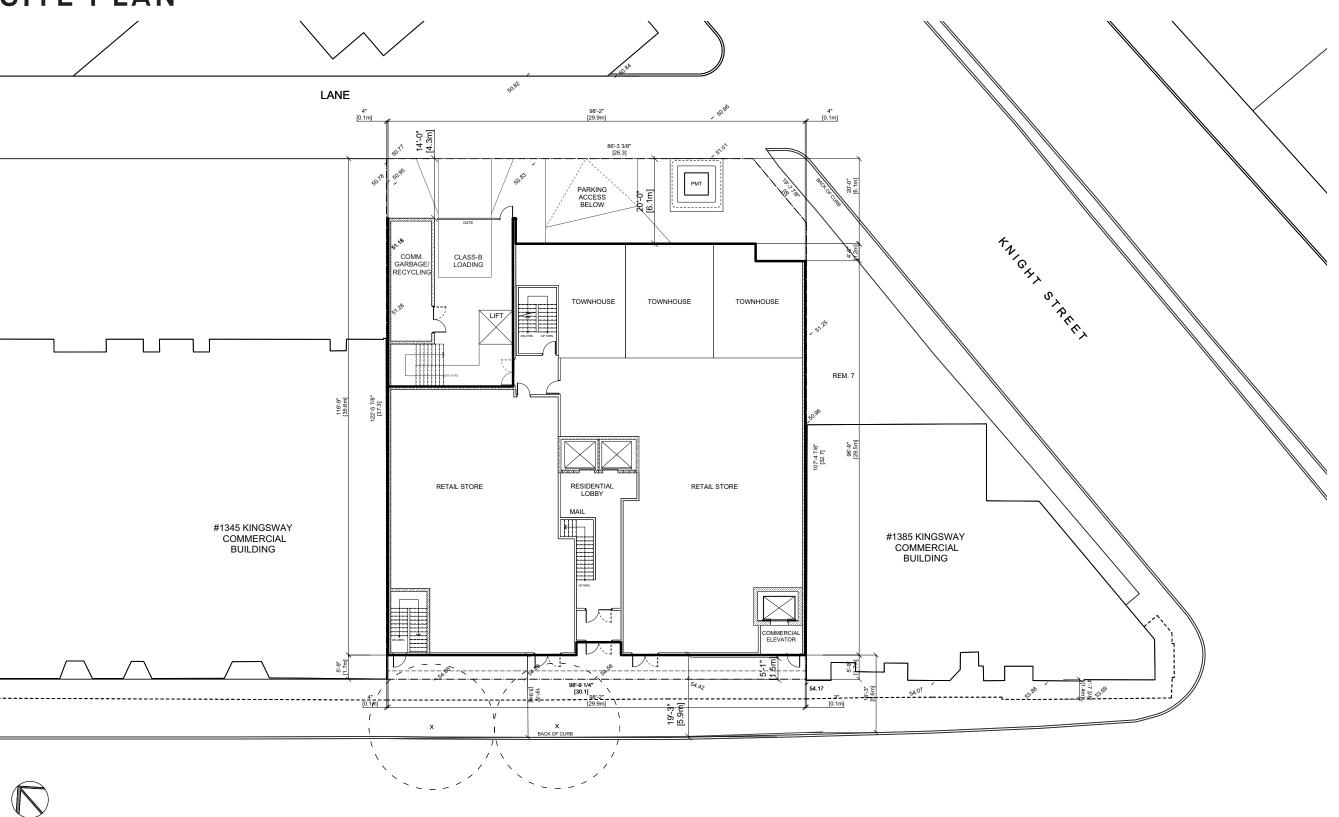
RELAXATION REQUESTED*

BICYCLE PARKING:

RESIDENTIAL		REC	UIRED	PROVIDED
CLASS A AS PER 6.2.1.2	1.5 SPACES PER UNIT < 700 SF 2.5 SPACES PER UNIT > 700 SF < 1130 SF 3 SPACES PER UNIT > 1130 SF	=	51 SPACES 38 SPACES 0 SPACES	
	BIKE SPACE IN STORAGE LOCKER (HORIZ.) (MIN 10%) HORIZONTAL SPACES IN BIKE ROOMS (TOTAL HORIZONTAL SPACES) STACKED SPACES (MAX 60%) OVERSIZED SPACES (MIN 5%) VERTICAL SPACES IN BIKE ROOMS (MAX 30%) TOTAL:	= = = = = =	8.85 OF TOTAL 53.1 4.425 88.5 SPACES	10 SPACES 26 SPACES 36 SPACES 52 SPACES 6 SPACES 2 SPACES 96 SPACES
	TOTAL W/ ELECTRICAL OUTLET (50%)	=	44 OF TOTAL	48 SPACES OF TOTAL
CLASS B AS PER 6.2.1.2	2 FOR 1ST 20 UNITS, 1 PER ADDITIONAL 20	=	4 SPACES	6 SPACES (BIKE RACKS AT GRADE)
COMMERCIAL				
CLASS A AS PER 6.2.5.1:	1 SPACE PER 340 SQ.M.	=	2 SPACES	2 SPACES
CLASS B AS PER 6.2.5.1:	6 SPACES PER DEVELOPMENT	=	6 SPACES	COMBINED WITH RESIDENTIAL (BIKE RACKS AT GRADE)

1375-1379 KINGSWAY PUBLIC HEARING 12

SITE PLAN

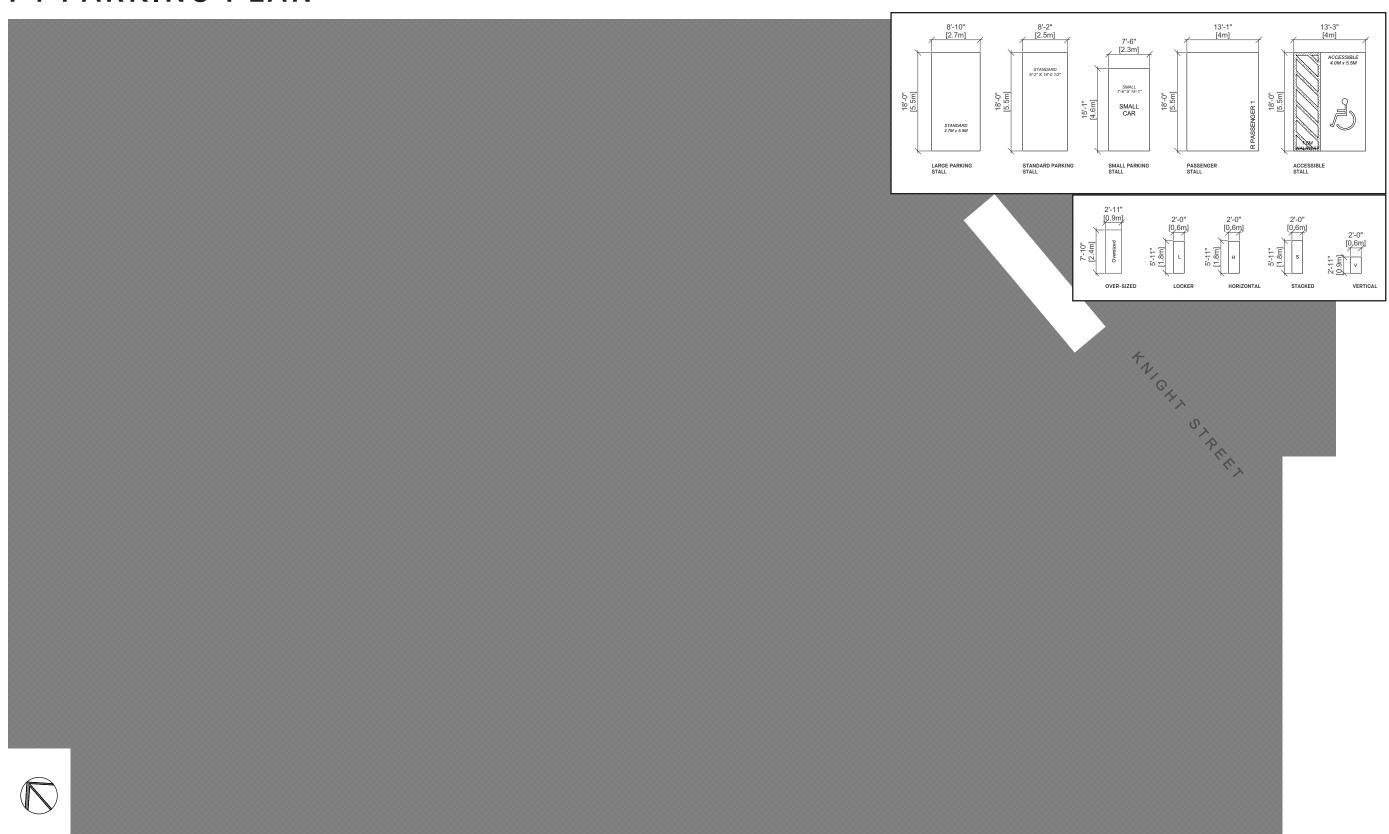


P2 PARKING PLAN

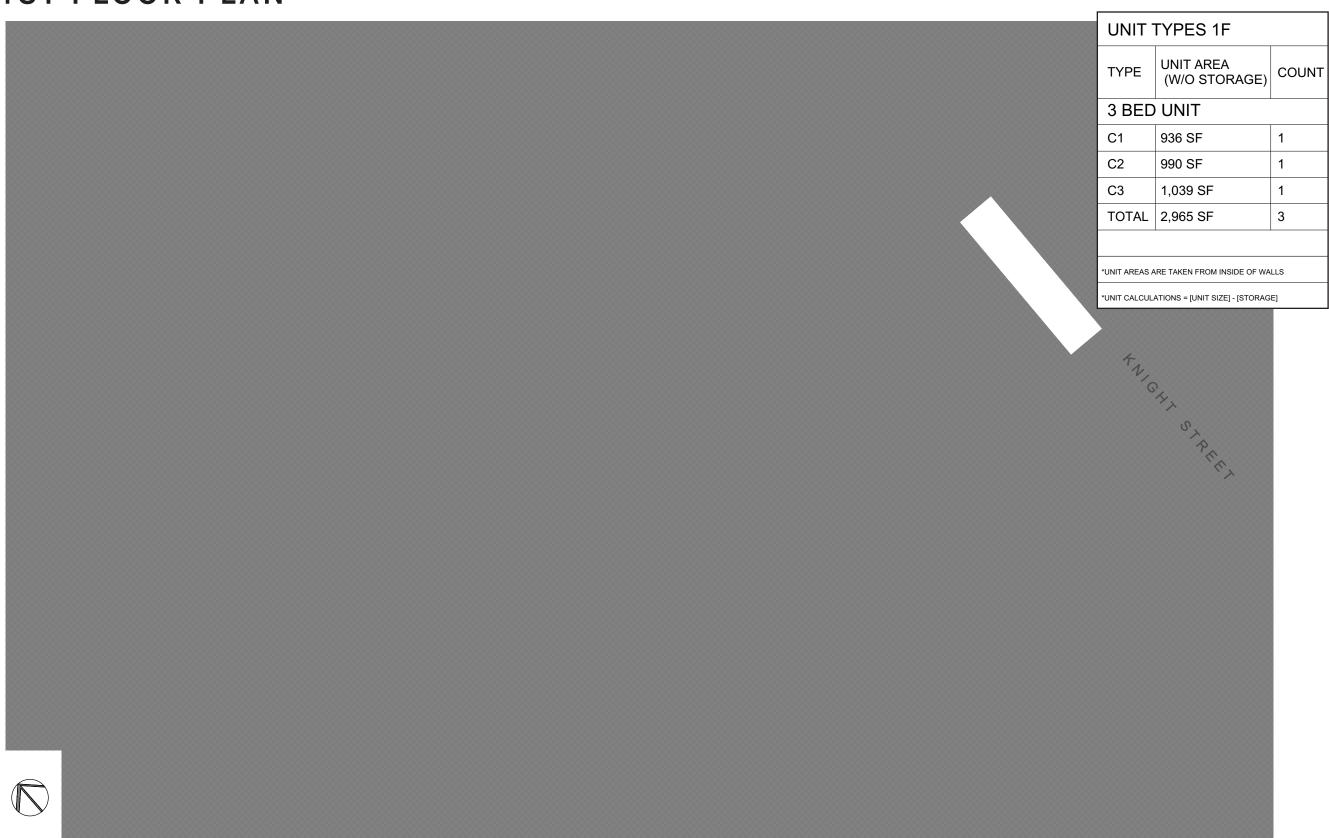




P1 PARKING PLAN



1ST FLOOR PLAN



MEZZANINE FLOOR PLAN



UNIT TYPES MF						
TYPE	UNIT AREA (W/O STORAGE)	COUNT				
1 BED UNIT						
B1	642 SF	1				
TOTAL	1,226 SF	1				
UNIT AREAS ARE TAKEN FROM INSIDE OF WALLS						
UNIT CALCULATIONS = [UNIT SIZE] - [STORAGE]						

2ND FLOOR PLAN



UNIT TYPES 2F								
TYPE	UNIT AREA (W/O STORAGE)	COUNT						
STUD	STUDIO UNIT							
S1	464 SF	1						
S2	451 SF	1						
S3	410 SF	1						
S4	450 SF	1						
TOTAL	1775 SF	4						
1 BED	UNIT							
A1	479 SF	1						
A2	542 SF	1						
A3	593 SF	1						
TOTAL	1,614 SF	3						
2 BED	UNIT							
B1	830 SF	1						
B2	823 SF	1						
TOTAL	1,653 SF	2						
*UNIT AREAS ARE TAKEN FROM INSIDE OF WALLS								
*UNIT CALCULATIONS = [UNIT SIZE] - [STORAGE]								

3RD FLOOR PLAN



UNIT	TYPES 3F						
TYPE	UNIT AREA (W/O STORAGE)	COUNT					
STUD	STUDIO UNIT						
S1	464 SF	1					
S2	451 SF	1					
S3	410 SF	1					
S4	447 SF	1					
S5	450 SF	1					
TOTAL	2,222 SF	5					
1 BED	UNIT						
A1	479 SF	1					
A2	542 SF	1					
A3	593 SF	1					
TOTAL	1,614 SF	3					
2 BED	UNIT						
B1	830 SF	1					
B2	823 SF	1					
TOTAL	1,653 SF	2					
*UNIT AREAS ARE TAKEN FROM INSIDE OF WALLS							
*UNIT CALCULATIONS = [UNIT SIZE] - [STORAGE]							

4TH FLOOR PLAN



UNIT ⁻	TYPES 4F						
TYPE	UNIT AREA (W/O STORAGE)	COUNT					
STUDIO UNIT							
S1	464 SF	1					
S2	451 SF	1					
S3	410 SF	1					
S4	447 SF	1					
S5	450 SF	1					
TOTAL	2,222 SF	5					
1 BED	1 BED UNIT						
A1	479 SF	1					
A2	542 SF	1					
A3	593 SF	1					
TOTAL	1,614 SF	3					
2 BED	UNIT						
B1	830 SF	1					
B2	823 SF	1					
TOTAL	1,653 SF	2					
*UNIT AREAS ARE TAKEN FROM INSIDE OF WALLS							
*UNIT CALCULATIONS = [UNIT SIZE] - [STORAGE]							

5TH FLOOR PLAN



UNIT TYPES 5F			
TYPE	UNIT AREA (W/O STORAGE)	COUNT	
STUDIO UNIT			
S1	421 SF	1	
S2	410 SF	1	
S3	416 SF	1	
TOTAL	1,247 SF	3	
1 BED UNIT			
A1	542 SF	1	
TOTAL	542 SF	1	
2 BED UNIT			
B1	676 SF	1	
B2	830 SF	1	
В3	823 SF	1	
B4	780 SF	1	
TOTAL	3,109 SF	4	
*UNIT AREAS ARE TAKEN FROM INSIDE OF WALLS			
*UNIT CALCULATIONS = [UNIT SIZE] - [STORAGE]			

6TH FLOOR PLAN



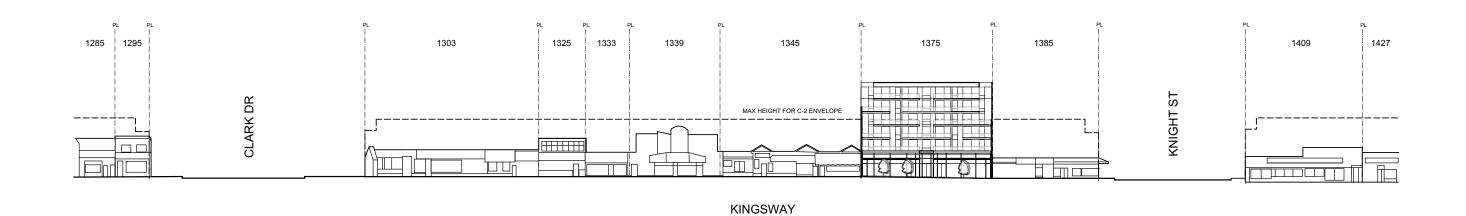
UNIT TYPES 6F			
TYPE	UNIT AREA (W/O STORAGE)	COUNT	
STUDIO UNIT			
S1	421 SF	1	
S2	410 SF	1	
S3	416 SF	1	
TOTAL	1,247 SF	3	
1 BED UNIT			
A1	542 SF	1	
TOTAL	542 SF	1	
2 BED UNIT			
B1	676 SF	1	
B2	830 SF	1	
В3	823 SF	1	
B4	780 SF	1	
TOTAL	3,109 SF	4	
*UNIT AREAS ARE TAKEN FROM INSIDE OF WALLS			
*UNIT CALCULATIONS = [UNIT SIZE] - [STORAGE]			

ROOF FLOOR PLAN

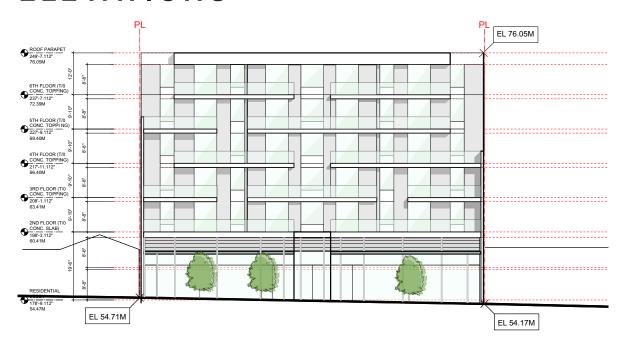


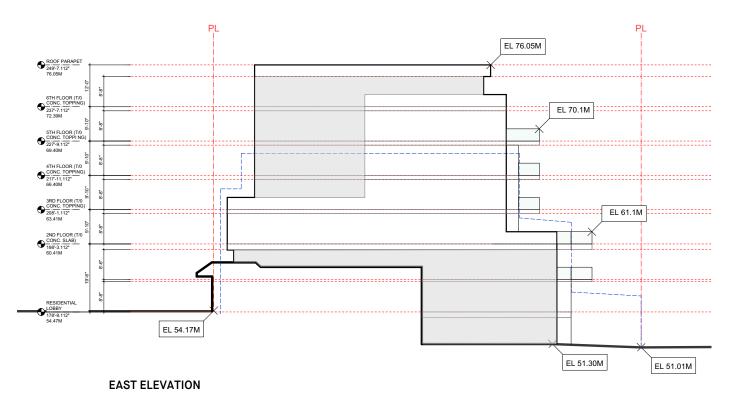
KINGSWAY STREETSCAPE



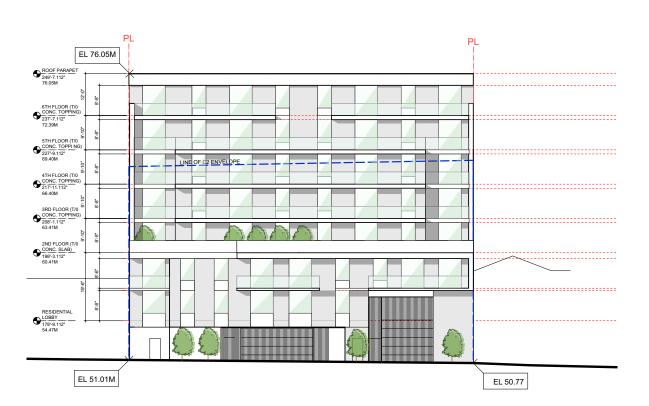


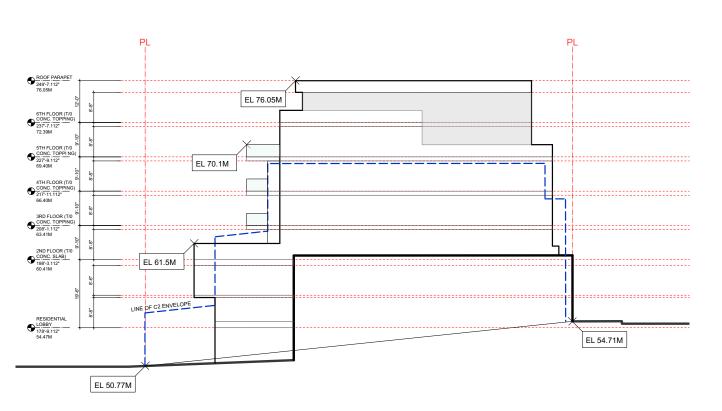
ELEVATIONS

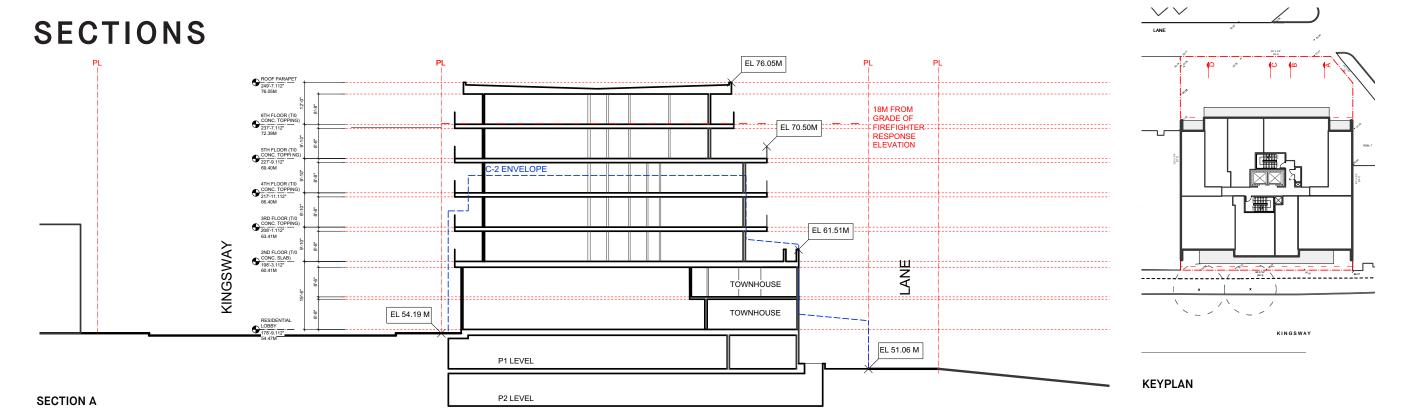


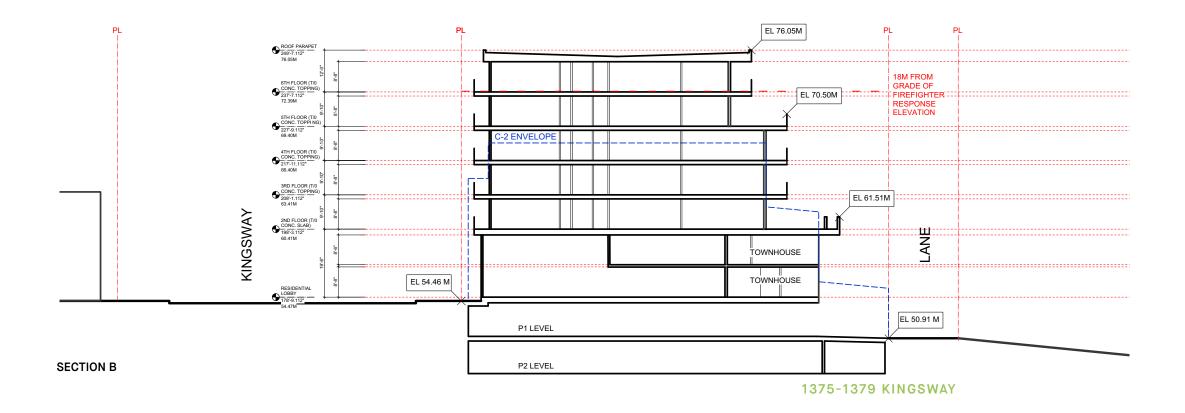


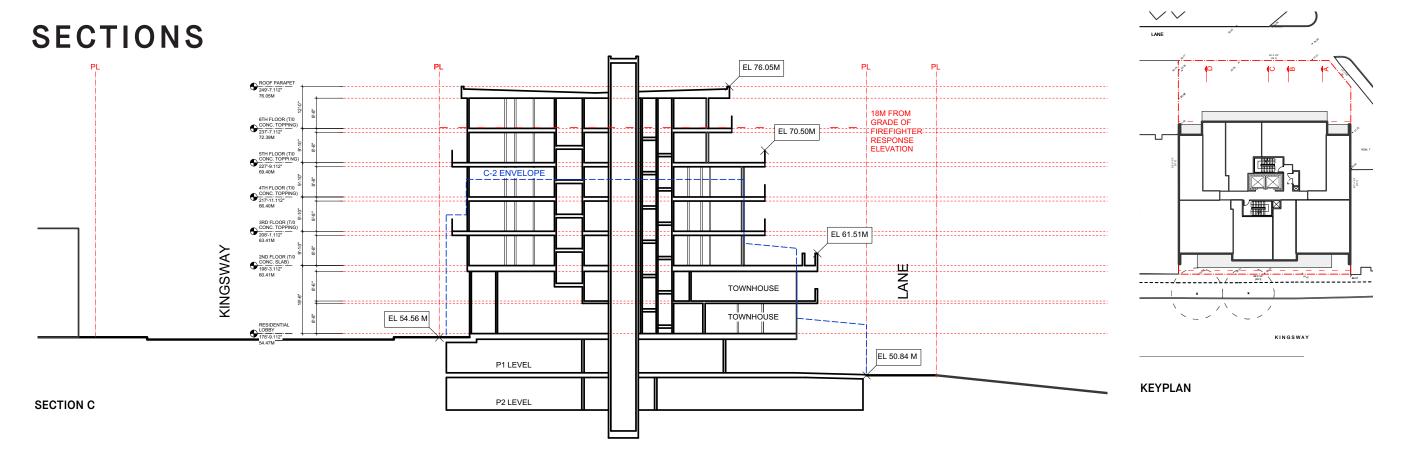
SOUTH ELEVATION

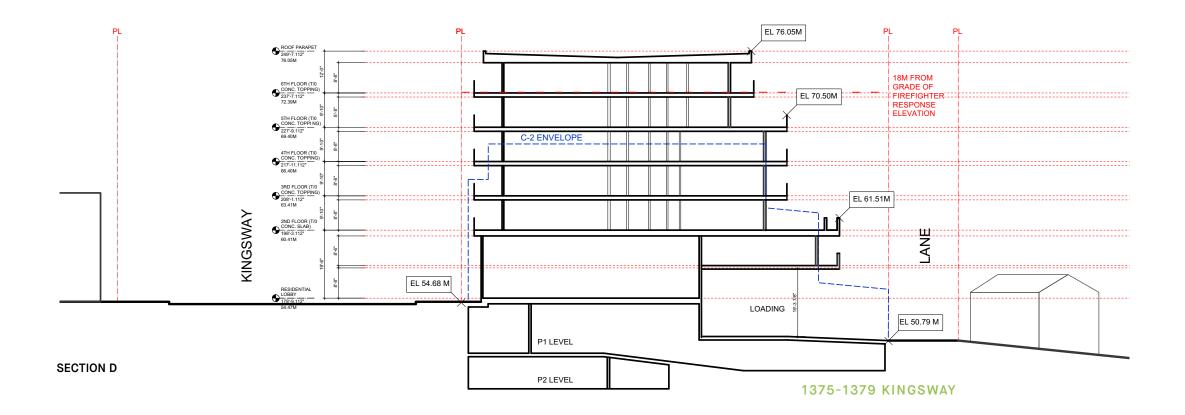




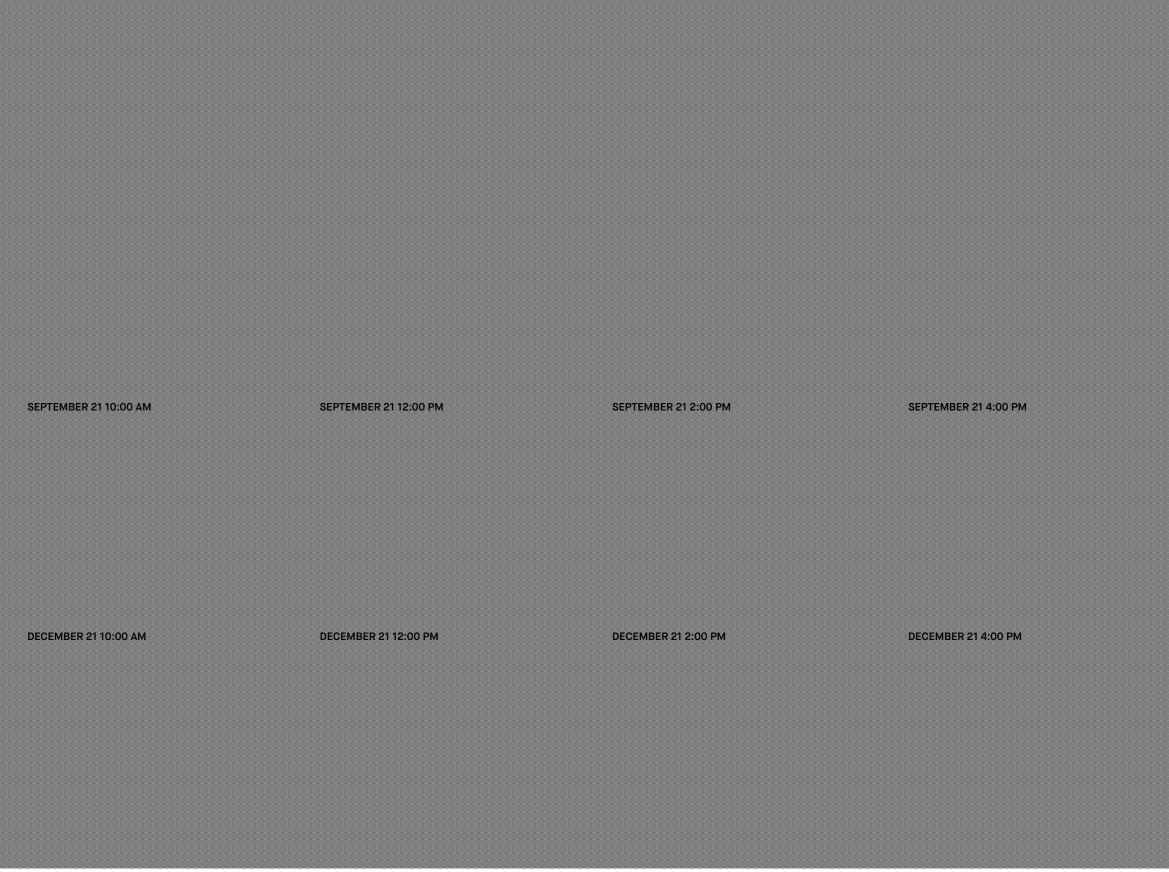






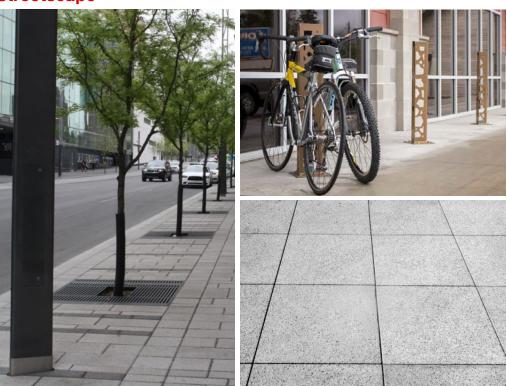


SHADOW STUDIES



LANDSCAPE MATERIALS

Streetscape



Private Outdoor Space



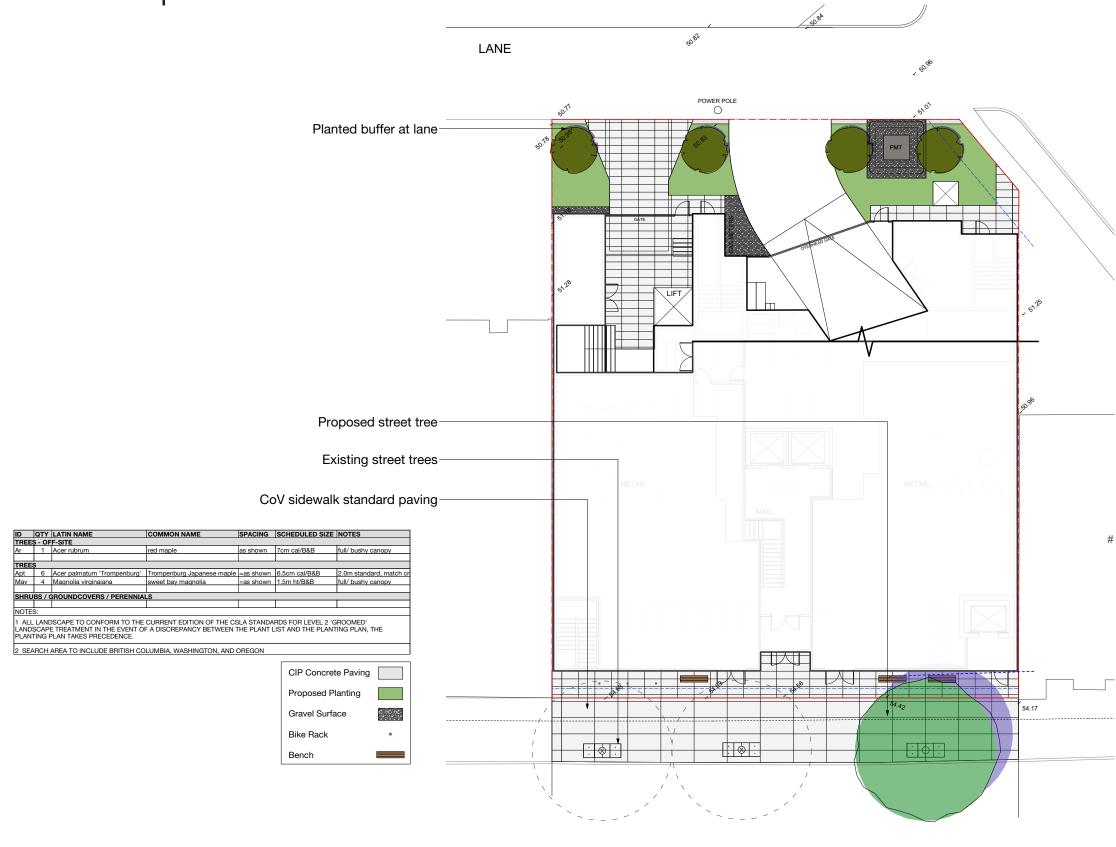
Interactive Planting



Nature Play



LAYOUT + MATERIALS | P1 + GROUND LEVEL

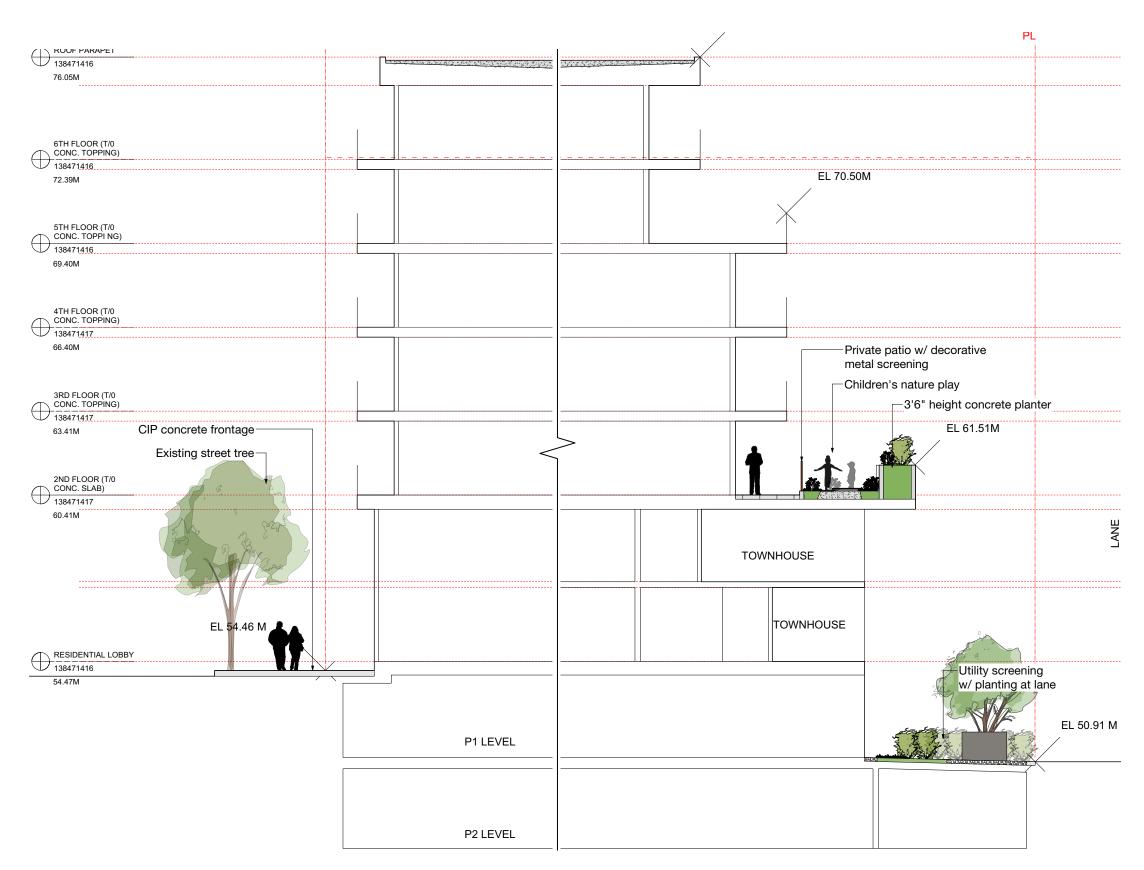


LAYOUT + MATERIALS | LEVEL 2



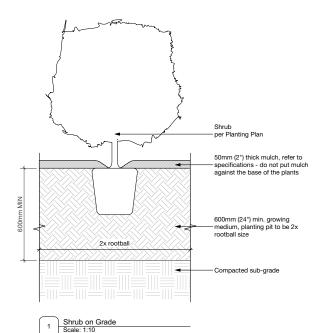


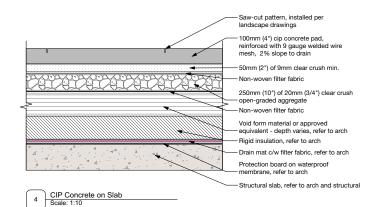
SECTION

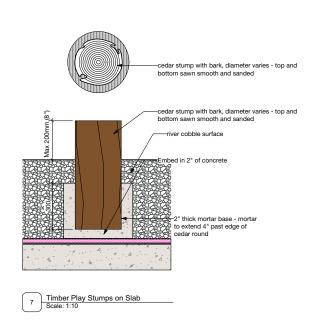


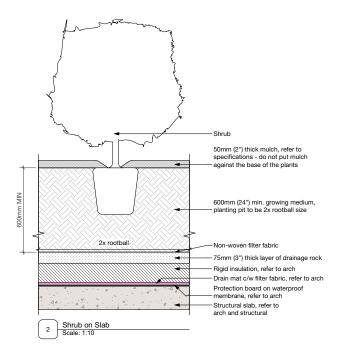
LANDSCAPE

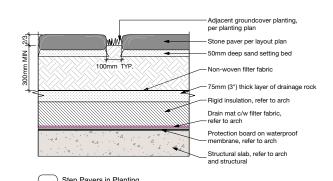
DETAILS

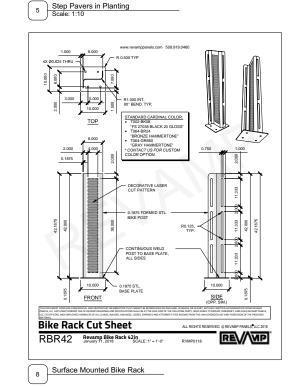


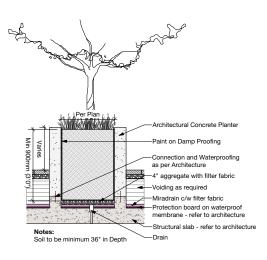


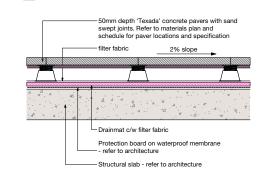


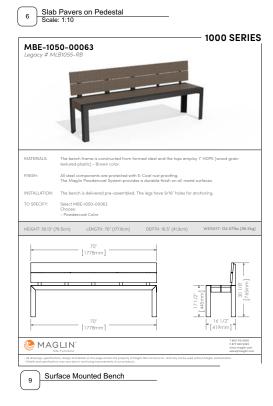












1375-1379 KINGSWAY PUBLIC HEARING 33