

# Memorandum

<b>To:</b>	Krista Baronian, WestStone Group	<b>From:</b>	Matthew Woo, Binnie Allan Fan, Binnie
<b>Cc:</b>	Ava Li, Binnie Eric Tam, Binnie	<b>Date:</b>	June 2 <sup>nd</sup> , 2023
<b>Project #:</b>	18-0884	<b>File:</b>	18-0884-05
<b>Re:</b>	14937 Thrift Avenue Traffic Study – Parking Variance Memorandum FINAL Rev.0		

## 1 INTRODUCTION

R.F. Binnie & Associates Ltd. (Binnie) was retained by WestStone Group (the Developer) to provide traffic engineering consulting services for a proposed multi-family residential development located at 14937 Thrift Avenue in the City of White Rock (the City). This memorandum supplements the traffic study, submitted to the City on June 29, 2020, in addition to the Revised Site Statistics Addendum FINAL Rev. 0.

Based on the design drawings by Keystone Architecture & Planning Ltd. dated May 19, 2023, the development is seeking a variance of 11 stalls from the bylaw required 209 total vehicle parking stalls, for a total of 198 vehicle parking stalls.

To assess the potential for a reduced parking supply, this memorandum reviews regional parking demand data, in addition to developing a Transportation Demand Management (TDM) plan to support the parking variance request.

The revised site statistics dated May 19, 2023 are provided in **Appendix A**.

## 2 PARKING REVIEW

### 2.1 Vehicle Parking Requirements and Supply

The off-street parking requirements for the proposed development were calculated based on the City’s Bylaw No. 2000 (2022). Based on Section 4.14, a total of 209 parking stalls are required with 167 stalls for resident parking and 42 stalls for visitor parking, which is presented in **Table 2-1**.

Table 2-1: Bylaw Required Parking Stalls

Description	Bylaw Ref.	Size	Unit	Required Stalls Per Unit	Stalls Required
Resident Parking Stalls - Apartment	2000 - 4.14	139	Units	1.20	167
Visitor Parking Stalls	2000 - 4.14	139	Units	0.30	42
<b>Total:</b>					<b>209</b>

Based on the May 19, 2023 data sheet, the proposed development is expected to provide a total of 198 parking stalls with 41 stalls for visitor parking, two stalls for dedicated car-share vehicles, and 155 stalls for resident parking. The Developer is seeking a parking variance of 11 stalls to meet the Bylaw requirements.

## 2.2 Forecast Parking Demand

The forecast parking demand for the proposed development was also reviewed based on the parking rates published in the Metro Vancouver *2018 Regional Parking Study* (the Study).

According to the 2018 Metro Vancouver study, the parking supply for market rental apartment buildings was observed to exceed utilization by 35 percent. The report also found that 0.99 stalls were occupied per unit for market rental sites. This figure was observed for resident parking for market rental sites not within close proximity to the frequent transit network (FTN). With a utilization rate of 0.99 stalls per unit, the estimated parking demand for the development would be 138 stalls, which is 29 stalls less than the Bylaw-required 167 stalls for resident parking. It is also 17 stalls less than the 155 parking stalls proposed for residents.

The parking demand using Metro Vancouver rates is summarized in **Table 2-2**.

Table 2-2: Metro Vancouver Forecast Study Development Generated Parking Demand

Description	Size	Unit	Site Type	Avg. Parking Gen Per Unit	Generated Parking Demand
Resident Parking	139	Dwelling Units	Market Rental - Away from FTN	0.99	138

A key finding from the Study was that visitor parking may also be over supplied. The Study found that observed parking demand rates were below 0.1 stalls per apartment unit, which would result in an estimated demand for 14 visitor parking spaces. Considering that the proposed development is expected to provide visitor stall parking at the Bylaw rate of 0.3 stalls per unit, visitor parking supply may exceed the forecasted demand.

## 2.3 Bicycle Parking Requirements and Supply

Based on section 4.16 of the City’s Bylaw No. 2000 (2022), a total of 167 bicycle parking stalls are required with 139 stalls for Class 1 secure long-term parking and 28 stalls for Class 2 short-term parking. The Bylaw requirements for bicycle parking supply are presented in **Table 2-3**.

Table 2-3: Bylaw Required Bicycle Parking Stalls

Description	Bylaw Ref.	Size	Unit	Required Stalls Per Unit	Stalls Required
Bicycle Parking Stall Class 1	2000 - 4.16	139	Units	1.00	139
Bicycle Parking Stall Class 2	2000 - 4.16	139	Units	0.20	28
<b>Total:</b>					<b>167</b>

Based on the May 19, 2023 data sheet, the proposed development is expected to provide 153 Class 1 bicycle parking stalls, which exceeds the Bylaw required 139 Class 1 bicycle parking stalls by a count of 14. The development is also expected to provide 30 Class 2 bicycle parking stalls, which is two more than the Bylaw required 28 Class 2 bicycle parking stalls.

## 2.4 Transportation Demand Management Plan

Due to the proposed reduction of 11 vehicle parking stalls from the Bylaw required total, a Transportation Demand Management (TDM) plan has been provided. The following sections describe the TDM measures proposed by the Developer to ensure that the reduction in parking stalls is offset by the availability of other, more sustainable, modes of transportation. TDM measures work by incentivizing these modes by increasing the convenience and decreasing the relative costs of sustainable modes.

### ***2.4.1 Car Share Spaces***

The proposed development is expected to provide two publicly available vehicle parking spaces, specifically for car share vehicles. Access to these car share spots, located at the P2 level with other visitor parking stalls, will be granted to the public 24 hours a day, seven days a week. The building manager will be responsible for facilitating public access to these car share spaces in a manner that maintains the security of the proposed development. A letter of support from a car share company will be obtained by the Developer.

### ***2.4.2 Transportation Marketing Services***

The developer will consider providing tailored marketing and communications campaigns to encourage the use of sustainable transportation modes. Promotions around the proposed development, centered on targeted messaging and incentives along with other marketing strategies, will seek to deliver an overarching campaign to encourage residents to choose transit and other active modes of transportation. New residents of the proposed development will receive the necessary information to assess their commuting options via specific transit and bicycle routes.

### ***2.4.3 Monthly Transit Pass Subsidy***

The developer will consider offering monthly subsidies towards TransLink Compass Cards (stored value or monthly pass) per dwelling unit. These passes would be offered to residents upon request, but residents should be made aware of the program.

### ***2.4.4 Improved Access to Class 1 Bicycle Parking***

The proposed development is expected to provide an access ramp to the Class 1 bicycle parking that is fully separated from the vehicle parking ramp. This entrance, located just south of the entry lobby stairs at the P1 level, opens immediately to the bicycle parking for ease of access and safety. **Figure 2-1** shows the expected plan layout of the Class 1 bicycle parking in relation to the main entrance of the development.

### ***2.4.5 Electric Class 1 Bicycle Parking***

The proposed development is expected to provide a portion of Class 1 bicycle parking as spaces designated for electric bicycles. Considering the moderate to steep hills surrounding the proposed development, electric bicycles are likely to be an attractive transportation option for many residents. These electric bicycle parking spots will provide outlets with the capacity to charge common bicycle batteries and bicycle lights. **Figure 2-1** shows the expected location of the 16 Class 1 bicycle parking stalls dedicated to electric bicycles.

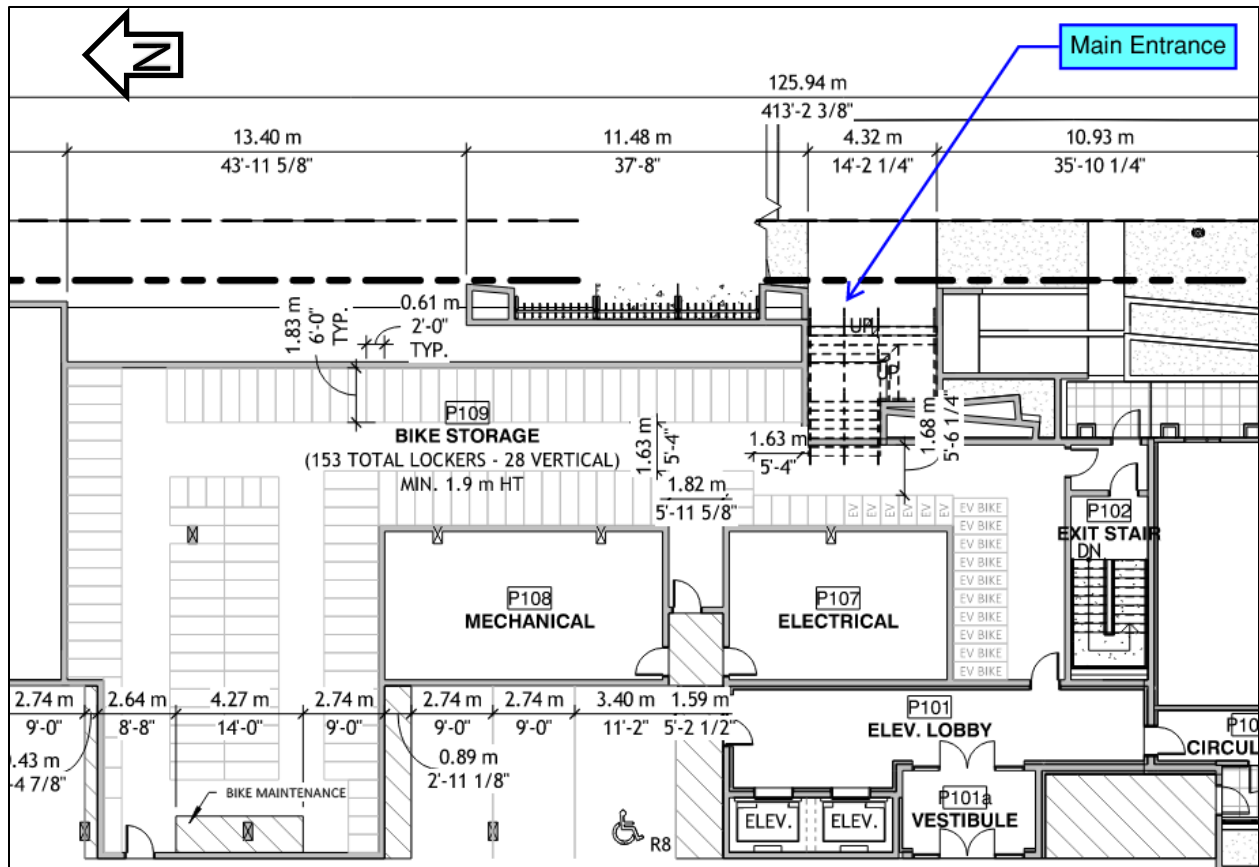


Figure 2-1: Location of Class 1 Bicycle Parking – P1 Level (Source: Keystone Architecture)

**2.4.6 Additional Class 1 and 2 Bicycle Parking**

The proposed development is expected to provide Class 1 and 2 bicycle parking in excess of the Bylaw required number. By providing 14 additional Class 1 bicycle lockers, the developer is increasing the parking supply by 10%. Provided Class 2 bicycle parking will also exceed minimum requirements by 7%.

**2.4.7 Walking Improvements**

The proposed development is committed to providing walking improvements that enhance the pedestrian network within the site and connect to the existing pedestrian infrastructure. This includes pedestrian accommodations along Vidal Street and Thrift Avenue frontages. The improvements provide direct off-site connections from the building’s entrances to increase accessibility to transit options and other popular, nearby destinations. Ground-oriented units fronting Vidal Street will incorporate associated planting, elevated patios, and base-of-building façade materials to provide a pleasant pedestrian environment. **Figure 2-2** shows the planned pedestrian network upgrades around the proposed development.

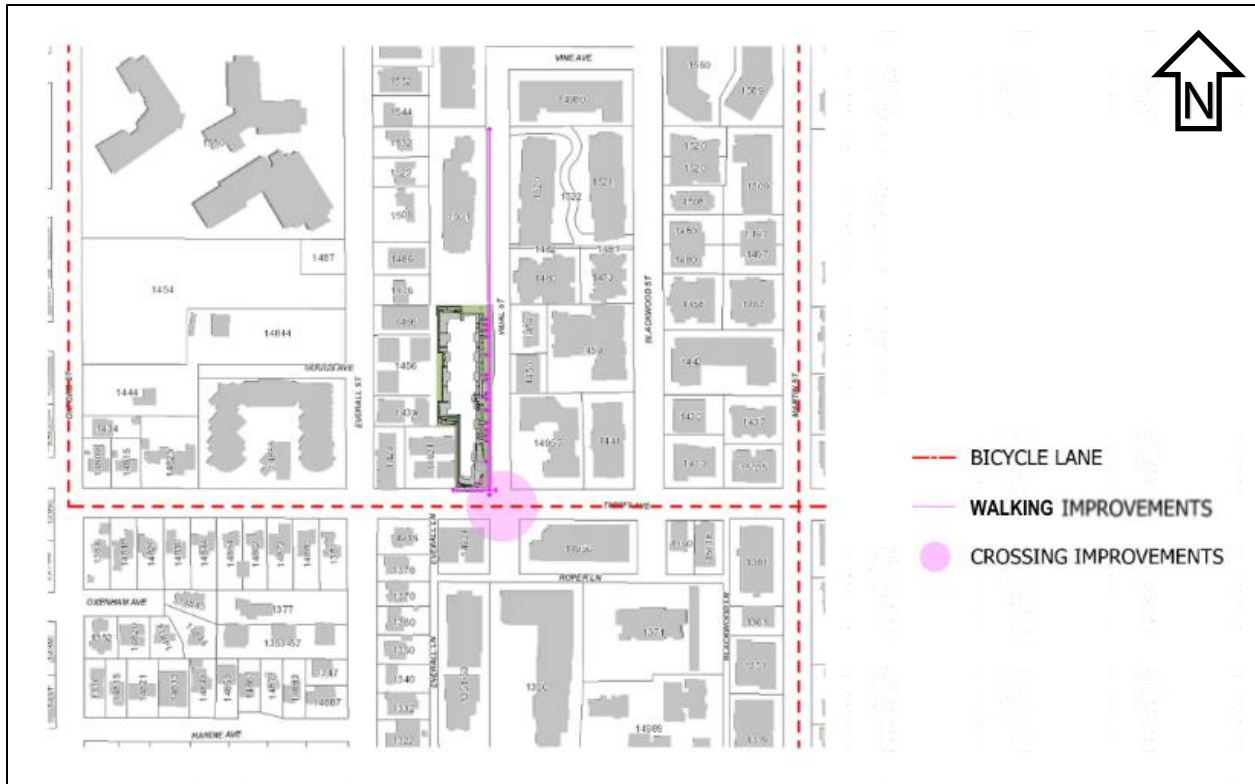


Figure 2-2: Walking Improvements Plan View of Pedestrian and Cycling Routes (Source: Keystone Architecture)

### 2.4.8 Multimodal Wayfinding Signage

The proposed development is expected to provide multimodal wayfinding signage that can withstand the weather elements in key locations on site. These signs will be located near the main entrance and other access points to ensure that residents and visitors will be directed to the nearest bus stop, car share station, bicycle parking, and other key destinations within walking distance. Signage will be provided both inside and outside the building, prioritizing high pedestrian traffic areas.

## 3 CONCLUSIONS

The proposed parking supply does not meet the Bylaw requirement of 209 total stalls. Based on the Metro Vancouver 2018 Regional Parking Study, the resident (excluding visitor) parking demand for market rentals (more than 800 metres from a FTN route), is 0.99 stalls per dwelling unit. The same report notes that visitor parking demand was observed to be less than 0.1 stalls per apartment unit. This would result in a generated parking demand of 138 stalls for residents and 14 stalls for visitors. The proposed 198 stall parking supply (resident, car-share, and visitor) is expected to be sufficient in meeting the forecast residential rental parking demands with the support of the TDM plan strategies. By providing additional accommodations for pedestrians, cyclists, and transit users, the mode share for vehicles may be reduced.

Memorandum Prepared by:

Memorandum Reviewed by:

A handwritten signature in black ink, appearing to read "Allan Fan".

Allan Fan, EIT  
Transportation Engineer

Matthew Woo, P.Eng., PTOE, M.Sc., RSP1  
Transportation Engineer of Record

Attachment: Appendix A – Revised Site Statistics



## **APPENDIX A**

### **REVISED SITE STATISTICS**

### 0.1. project data

PROJECT:	VIDAL STREET (RESIDENTIAL APARTMENT BUILDING)
EXISTING ZONING:	RS-1, RT-1, CD
PROPOSED ZONING:	CD (COMPREHENSIVE DEVELOPMENT ZONE)
CIVIC ADDRESS:	VIDAL STREET, WHITE ROCK, B.C.
LEGAL DESCRIPTION :	LOT 1 PLAN EPP46879, LOT 8 PLAN 13684, AND STRATA PLAN NWS2236, ALL OF SEC 10 TP 1 NWD
VARIANCES APPLIED FOR:	PARKING REDUCTION OF 22.5% FROM 204 STALLS TO 158 STALLS (REFER TO TRAFFIC REPORT FROM BINNIE FOR PARKING REDUCTION RATIONALE)
BYLAW EXEMPTIONS:	
MAXIMUM BUILDING HEIGHT:	
MINIMUM BUILDING ELEVATION:	
SITE AREA:	41,714 S.F. (3,875.4 S.M.) (0.958 ACRES)
BUILDING AREA:	16,517 S.F.
FAR :	102,015 S.F. (GROSS FLOOR AREA) / 41,714 S.F. = 2.45
LOT COVERAGE:	16,517 S.F. / 41,714 S.F. = 39.6%
BUILDING HEIGHT:	123.08m - 96.66m = 26.42m (T.O. ROOF ELEV. - OVERALL AVERAGE NATURAL GRADE = BLDG. HEIGHT)
AVERAGE NATURAL GRADE:	NORTH: 100.25M, EAST: 97.14M, SOUTH: 92.25M, WEST: 96.99M OVERALL: 96.66M
EFFICIENCY:	85,327 S.F. / 102,015 S.F. = 83.6%
RESIDENTIAL FLOOR AREA:	85,327 S.F.
CIRCULATION AREA:	14,762 S.F.
NOTE:	1. NI = NOT INCLUDED IN TOTALS    2. INC = INCLUDING

NOTE: "GRADE, AVERAGE NATURAL" MEANS THE AVERAGE THAT IS DETERMINED BY MEASURING AT THE MIDPOINTS OF THE WALLS OF THE FOUR SIDES OF THE BUILDING OR STRUCTURE.

### 0.2. building floor area summary

LEVEL	AREA
P4 LEVEL	19376 SF
P3 LEVEL	25864 SF
P2 LEVEL	28648 SF
P1 LEVEL	21572 SF
	<b>95460 SF</b>
<b>GROSS FLOOR AREA</b>	
P1 LEVEL	1474 SF
1st LEVEL	16426 SF
2nd LEVEL	16160 SF
3rd LEVEL	16405 SF
4th LEVEL	16405 SF
5th LEVEL	16405 SF
6th LEVEL	16405 SF
T/O ROOF	815 SF
	<b>100498 SF</b>
<b>INDOOR AMENITY</b>	
P1 LEVEL	1517 SF
	<b>1517 SF</b>
<b>OUTDOOR AMENITY</b>	
T/O ROOF	12672 SF
	<b>12672 SF</b>

NOTE: "GROSS FLOOR AREA" MEANS THE SUM TOTAL OF FLOOR AREAS OF EACH STOREY IN A BUILDING, INCLUSIVE OF EXTERIOR WALLS. GROSS FLOOR AREA SHALL EXCLUDE COMMUNITY AMENITY SPACE.

### 0.3. circulation area summary

UNIT	AREA	COUNT	LEVEL	TYPE	TOTAL AREA
COMMON AREA	288 SF	1	P1 LEVEL	CIRCULATION	288 SF
COMMON AREA	1186 SF	1	P1 LEVEL	CIRCULATION	1,186 SF
COMMON AREA	2632 SF	1	1st LEVEL	CIRCULATION	2,632 SF
COMMON AREA	2097 SF	1	2nd LEVEL	CIRCULATION	2,097 SF
COMMON AREA	1979 SF	1	3rd LEVEL	CIRCULATION	1,979 SF
COMMON AREA	1979 SF	1	4th LEVEL	CIRCULATION	1,979 SF
COMMON AREA	1979 SF	1	5th LEVEL	CIRCULATION	1,979 SF
COMMON AREA	1979 SF	1	6th LEVEL	CIRCULATION	1,979 SF
COMMON AREA	218 SF	2	T/O ROOF	CIRCULATION	436 SF
COMMON AREA	379 SF	1	T/O ROOF	CIRCULATION	379 SF
<b>COMMON AREA: 11</b>					<b>14,934 SF</b>

### 0.4. unit floor area summary

UNIT	UNIT AREA	COUNT	LEVEL	TYPE	TOTAL UNIT AREA
UNIT A	323 SF	2	1st LEVEL	STUDIO	645 SF
UNIT A	323 SF	2	2nd LEVEL	STUDIO	645 SF
UNIT A	323 SF	2	3rd LEVEL	STUDIO	646 SF
UNIT A	323 SF	2	4th LEVEL	STUDIO	646 SF
UNIT A	323 SF	2	5th LEVEL	STUDIO	646 SF
UNIT A	323 SF	2	6th LEVEL	STUDIO	646 SF
<b>UNIT A: 12</b>					<b>3,874 SF</b>
UNIT A2	377 SF	1	3rd LEVEL	STUDIO	377 SF
UNIT A2	377 SF	1	4th LEVEL	STUDIO	377 SF
UNIT A2	377 SF	1	5th LEVEL	STUDIO	377 SF
UNIT A2	377 SF	1	6th LEVEL	STUDIO	377 SF
<b>UNIT A2: 4</b>					<b>1,507 SF</b>
UNIT A3	404 SF	1	1st LEVEL	STUDIO	404 SF
<b>UNIT A3: 1</b>					<b>404 SF</b>
UNIT B	460 SF	5	1st LEVEL	1 BEDROOM	2,301 SF
UNIT B	460 SF	5	2nd LEVEL	1 BEDROOM	2,301 SF
UNIT B	460 SF	5	3rd LEVEL	1 BEDROOM	2,301 SF
UNIT B	460 SF	4	4th LEVEL	1 BEDROOM	1,840 SF
UNIT B	460 SF	4	5th LEVEL	1 BEDROOM	1,840 SF
UNIT B	460 SF	4	6th LEVEL	1 BEDROOM	1,840 SF
<b>UNIT B: 27</b>					<b>12,424 SF</b>
UNIT B1.1	453 SF	2	1st LEVEL	1 BEDROOM	906 SF
UNIT B1.1	453 SF	2	2nd LEVEL	1 BEDROOM	906 SF
UNIT B1.1	453 SF	3	3rd LEVEL	1 BEDROOM	1,359 SF
UNIT B1.1	453 SF	3	4th LEVEL	1 BEDROOM	1,359 SF
UNIT B1.1	453 SF	3	5th LEVEL	1 BEDROOM	1,359 SF
UNIT B1.1	453 SF	3	6th LEVEL	1 BEDROOM	1,359 SF
<b>UNIT B1.1: 16</b>					<b>7,247 SF</b>
UNIT B2	483 SF	2	1st LEVEL	1 BEDROOM	966 SF
UNIT B2	483 SF	1	2nd LEVEL	1 BEDROOM	483 SF
<b>UNIT B2: 3</b>					<b>1,450 SF</b>
UNIT B3	573 SF	1	2nd LEVEL	1 BEDROOM	573 SF
<b>UNIT B3: 1</b>					<b>573 SF</b>
UNIT B4	519 SF	1	1st LEVEL	1 BEDROOM	519 SF
UNIT B4	519 SF	1	2nd LEVEL	1 BEDROOM	519 SF
UNIT B4	519 SF	1	3rd LEVEL	1 BEDROOM	519 SF
UNIT B4	519 SF	1	4th LEVEL	1 BEDROOM	519 SF
UNIT B4	519 SF	1	5th LEVEL	1 BEDROOM	519 SF
UNIT B4	519 SF	1	6th LEVEL	1 BEDROOM	519 SF
<b>UNIT B4: 6</b>					<b>3,116 SF</b>
UNIT B4.1	486 SF	1	1st LEVEL	1 BEDROOM	486 SF
UNIT B4.1	486 SF	1	2nd LEVEL	1 BEDROOM	486 SF
UNIT B4.1	486 SF	1	3rd LEVEL	1 BEDROOM	486 SF
UNIT B4.1	486 SF	1	4th LEVEL	1 BEDROOM	486 SF
UNIT B4.1	486 SF	1	5th LEVEL	1 BEDROOM	486 SF
UNIT B4.1	486 SF	1	6th LEVEL	1 BEDROOM	486 SF
<b>UNIT B4.1: 6</b>					<b>2,913 SF</b>
UNIT B5	569 SF	1	1st LEVEL	1 BEDROOM	569 SF
UNIT B5	569 SF	1	2nd LEVEL	1 BEDROOM	569 SF
UNIT B5	569 SF	1	3rd LEVEL	1 BEDROOM	569 SF
UNIT B5	569 SF	1	4th LEVEL	1 BEDROOM	569 SF
UNIT B5	569 SF	1	5th LEVEL	1 BEDROOM	569 SF
UNIT B5	569 SF	1	6th LEVEL	1 BEDROOM	569 SF
<b>UNIT B5: 6</b>					<b>3,414 SF</b>
UNIT B6	518 SF	1	1st LEVEL	1 BEDROOM	518 SF
UNIT B6	518 SF	1	2nd LEVEL	1 BEDROOM	518 SF
UNIT B6	518 SF	1	3rd LEVEL	1 BEDROOM	518 SF
<b>UNIT B6: 3</b>					<b>1,555 SF</b>
UNIT C	745 SF	1	1st LEVEL	2 BEDROOM	745 SF
UNIT C	745 SF	1	2nd LEVEL	2 BEDROOM	745 SF
UNIT C	745 SF	1	3rd LEVEL	2 BEDROOM	745 SF

### 0.4. unit floor area summary

UNIT	UNIT AREA	COUNT	LEVEL	TYPE	TOTAL UNIT AREA
UNIT C	745 SF	1	4th LEVEL	2 BEDROOM	745 SF
UNIT C	745 SF	1	5th LEVEL	2 BEDROOM	745 SF
UNIT C	745 SF	1	6th LEVEL	2 BEDROOM	745 SF
<b>UNIT C: 6</b>					<b>4,467 SF</b>
UNIT C2	783 SF	1	1st LEVEL	2 BEDROOM	783 SF
UNIT C2	783 SF	1	2nd LEVEL	2 BEDROOM	783 SF
UNIT C2	783 SF	1	3rd LEVEL	2 BEDROOM	783 SF
UNIT C2	783 SF	1	4th LEVEL	2 BEDROOM	783 SF
UNIT C2	783 SF	1	5th LEVEL	2 BEDROOM	783 SF
UNIT C2	783 SF	1	6th LEVEL	2 BEDROOM	783 SF
<b>UNIT C2: 6</b>					<b>4,697 SF</b>
UNIT C3	794 SF	1	1st LEVEL	2 BEDROOM	794 SF
UNIT C3	794 SF	1	2nd LEVEL	2 BEDROOM	794 SF
UNIT C3	794 SF	1	3rd LEVEL	2 BEDROOM	794 SF
UNIT C3	794 SF	1	4th LEVEL	2 BEDROOM	794 SF
UNIT C3	794 SF	1	5th LEVEL	2 BEDROOM	794 SF
UNIT C3	794 SF	1	6th LEVEL	2 BEDROOM	794 SF
<b>UNIT C3: 6</b>					<b>4,765 SF</b>
UNIT C4	584 SF	1	2nd LEVEL	2 BEDROOM	584 SF
UNIT C4	584 SF	1	3rd LEVEL	2 BEDROOM	584 SF
UNIT C4	592 SF	1	3rd LEVEL	2 BEDROOM	592 SF
UNIT C4	584 SF	1	4th LEVEL	2 BEDROOM	584 SF
UNIT C4	592 SF	1	4th LEVEL	2 BEDROOM	592 SF
UNIT C4	584 SF	1	5th LEVEL	2 BEDROOM	584 SF
UNIT C4	592 SF	1	5th LEVEL	2 BEDROOM	592 SF
UNIT C4	584 SF	1	6th LEVEL	2 BEDROOM	584 SF
UNIT C4	592 SF	1	6th LEVEL	2 BEDROOM	592 SF
<b>UNIT C4: 9</b>					<b>5,291 SF</b>
UNIT D	1046 SF	1	1st LEVEL	3 BEDROOM	1,046 SF
UNIT D	1051 SF	1	1st LEVEL	3 BEDROOM	1,051 SF
UNIT D	1046 SF	1	2nd LEVEL	3 BEDROOM	1,046 SF
UNIT D	1051 SF	1	2nd LEVEL	3 BEDROOM	1,051 SF
UNIT D	1046 SF	1	3rd LEVEL	3 BEDROOM	1,046 SF
UNIT D	1047 SF	1	3rd LEVEL	3 BEDROOM	1,047 SF
UNIT D	1046 SF	1	4th LEVEL	3 BEDROOM	1,046 SF
UNIT D	1047 SF	1	4th LEVEL	3 BEDROOM	1,047 SF
UNIT D	1046 SF	1	5th LEVEL	3 BEDROOM	1,046 SF
UNIT D	1047 SF	1	5th LEVEL	3 BEDROOM	1,047 SF
UNIT D	1046 SF	1	6th LEVEL	3 BEDROOM	1,046 SF
UNIT D	1047 SF	1	6th LEVEL	3 BEDROOM	1,047 SF
<b>UNIT D: 12</b>					<b>12,569 SF</b>
UNIT D2	978 SF	1	4th LEVEL	3 BEDROOM	978 SF
UNIT D2	978 SF	1	5th LEVEL	3 BEDROOM	978 SF
UNIT D2	978 SF	1	6th LEVEL	3 BEDROOM	978 SF
<b>UNIT D2: 3</b>					<b>2,935 SF</b>
UNIT D3	882 SF	1	1st LEVEL	3 BEDROOM	882 SF
UNIT D3	882 SF	1	2nd LEVEL	3 BEDROOM	882 SF
UNIT D3	882 SF	1	3rd LEVEL	3 BEDROOM	882 SF
UNIT D3	882 SF	1	4th LEVEL	3 BEDROOM	882 SF
UNIT D3	882 SF	1	5th LEVEL	3 BEDROOM	882 SF
UNIT D3	882 SF	1	6th LEVEL	3 BEDROOM	882 SF
<b>UNIT D3: 6</b>					<b>5,295 SF</b>
UNIT D4	1110 SF	1	1st LEVEL	3 BEDROOM	1,110 SF
UNIT D4	1110 SF	1	2nd LEVEL	3 BEDROOM	1,110 SF
UNIT D4	1110 SF	1	3rd LEVEL	3 BEDROOM	1,110 SF
UNIT D4	1110 SF	1	4th LEVEL	3 BEDROOM	1,110 SF
UNIT D4	1110 SF	1	5th LEVEL	3 BEDROOM	1,110 SF
UNIT D4	1110 SF	1	6th LEVEL	3 BEDROOM	1,110 SF
<b>UNIT D4: 6</b>					<b>6,658 SF</b>
<b>UNIT TOTALS: 139</b>					<b>85,154 SF</b>

### 0.5. parking

REQUIRED (BYLAW REQUIREMENT)	UNITS	FACTOR	TOTAL	TOTALS
DWELLING UNIT	139	*1.2	167	
VISITOR	139	*0.3	42	
BARRIER FREE (DWELLING UNITS)	167 STALLS	2 VAN / 2 STANDARD		
BARRIER FREE (VISITOR)	42 STALLS	1 VAN-ACCESSIBLE		
<b>TOTAL STALLS</b>			209	<b>209 REQUIRED</b>
ELECTRIC STALLS	209 STALLS	*0.1	21	21 EV
OFF STREET LOADING				<b>1 REQUIRED</b>
<b>PROVIDED</b>	SMALL CAR	BARRIER FREE	EV	TOTAL
TENANT (P1 FLOOR)	5	1 VAN-ACCESSIBLE	0	17
TENANT (P2 FLOOR)	15	1 VAN-ACCESSIBLE	17	37
TENANT (P3 FLOOR)	22	1 VAN/1 STANDARD	0	60
TENANT (P4 FLOOR)	9	0	0	41
VISITOR (P1 FLOOR)	9	0	0	18
VISITOR (P2 FLOOR)	11	1 VAN-ACCESSIBLE	4	25 (INC. 2 CO-OP)
<b>TOTAL STALLS</b>	71	5	21	<b>198 PROVIDED</b>
OFF STREET LOADING				<b>1 PROVIDED</b>
<b>BIKE PARKING REQUIRED (BYLAW REQUIREMENT)</b>	UNITS	FACTOR	TOTAL	
BIKE STALLS CLASS I	139	*1	139	
BIKE STALLS CLASS II	139	*0.2	28	
<b>TOTAL STALLS</b>			167	<b>167 REQUIRED</b>
<b>BIKE PARKING PROVIDED</b>				
BIKE STALLS CLASS I	(10.9% ADDITIONAL STALLS)		153	
BIKE STALLS CLASS II	(7.1% ADDITIONAL STALLS)		30	
<b>TOTAL STALLS</b>	(10.2% ADDITIONAL STALLS)		183	<b>183 PROVIDED</b>
NOTE:	1. NI = NOT INCLUDED IN TOTALS			

### 0.6. unit count

	RESIDENTIAL	UNIT #	UNIT %
1 BED		68	49%
2 BED		27	19%
3 BED		12	9%
3 BED (ADAPTABLE)		15	11%
STUDIO		17	12%
<b>UNIT TOTALS: 139</b>			

- NOTES:
- NO CURRENT STEP CODE REQUIREMENTS FOR CITY OF WHITE ROCK
  - INTENT FOR PROPOSED CONSTRUCTION TO MEET STEP 2 EQUIVALENCY
  - WOOD FRAME THERMAL PERFORMANCE BETTER THAN STEEL OR CONCRETE
  - DEVELOPER IS AWARE OF THE IMPORTANCE OF ENERGY EFFICIENCY IN THE CURRENT MARKET