

WHISTLER

REPORT ADMINISTRATIVE REPORT TO COUNCIL

PRESENTED: September 15, 2020 REPORT: 20-089

FROM: Resort Experience **FILE:** RZ1165, 7743.01

SUBJECT: RZ1165 – CHEAKAMUS CROSSING PHASE 2 – UPPER LANDS PARCELIZATION

PLAN

COMMENT/RECOMMENDATION FROM THE CHIEF ADMINISTRATIVE OFFICER

That the recommendation of the General Manager of Resort Experience be endorsed.

RECOMMENDATION

That Council endorse further review and processing of RZ1165; and

That Council direct staff to commence preparation of a zoning amendment bylaw for Council consideration, that provides for the parcelization of the lands within the UR1 Zone, and a corresponding allocation of the existing permitted density and uses by parcel, along with establishment of building setbacks within each parcel and the addition of daycare as a permitted use; and further

That Council direct staff to conduct a public information and input opportunity prior to bringing forward a proposed zoning amendment bylaw for Council consideration of first and second reading.

REFERENCES

Owner: Whistler 2020 Development Corporation

Location: 1340/1360 Mount Fee Road

Legal Descriptions: BLOCK A, DISTRICT LOT 8073 GROUP 1 NEW WESTMINSTER DISTRICT,

EXCEPT PLAN EPP277, PID 026-772-213

Current Zoning: UR1 (Urban Reserve One) Zone

Appendices: "A" – Location Map

"B" - Rezoning Application Summary

"C" - UR1 Zone Regulations

Council Reports: Information Report to Council No. 18-087, June 19, 2018, Mayor's Task Force on

Resident Housing – Cheakamus Crossing Expansion Update (Not attached)

PURPOSE OF REPORT

This report presents a rezoning application from the Whistler 2020 Development Corporation for the rezoning of lands referred to as the Cheakamus Crossing Upper Lands, to facilitate the phased development of the lands to support meeting the resort community's employee housing needs.

The proposed rezoning seeks to amend the UR1 (Urban Reserve 1) Zone to reduce the minimum parcel area to enable future subdivision of the lands and to allocate the existing permitted density and

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uses in the zone, to corresponding parcel areas. The proposed rezoning would also establish the building setbacks for each parcel area within the zone, as well as add daycare as a permitted use.

The report recommends Council endorse further review and processing of the proposed rezoning, and directs staff to commence preparation of a zoning amendment bylaw for Council consideration, subject to conducting a public information and input opportunity prior to presenting the bylaw to Council for consideration of first and second reading.

DISCUSSION

Background

The subject lands, referred to as the Cheakamus Crossing "Upper Lands", are shown on the Location Map in Appendix "A". The lands are a portion of the "Lower Cheakamus Community Land Bank Site" granted to the RMOW under the *Community Land Bank Agreement (October 21, 2005)*, as a lasting legacy of the 2010 Winter Olympic and Paralympic Games for providing needed affordable employee housing. The applicant for the proposed rezoning, the Whistler 2020 Development Corporation, has beneficial interest to the lands to undertake their development for this purpose.

The Upper Lands are located at the southeast end of the existing Cheakamus Crossing neighbourhood, adjacent to the Cheakamus River and accessed via upper Mt. Fee Road. In the initial Master Planning of the Athlete's Village and conversion to the permanent Cheakamus Crossing neighbourhood, the Upper Lands were identified as the Phase 2 development area. The Phase 1 development area, which essentially represents the currently existing neighbourhood, is nearing buildout with only one remaining employee housing parcel to be developed. This parcel, located 1315 Cloudburst Drive, is zoned and currently proceeding through development approvals for additional employee housing.

The Upper Lands comprise approximately 15.5 hectares of land area, whereas the existing neighbourhood (excluding Bayly Park) has an area of approximately 28 hectares. Combined these two areas represent a total area of 43.5 hectares. The land bank granted by the Province also includes 51.3 hectares of additional land area, referred to as the Cheakamus Crossing "Lower Lands".

The initial zoning for the Cheakamus Crossing neighbourhood was adopted on June 18, 2007, under Zoning Amendment Bylaw No. 1734. The initial zone, LCCD-1, was a blanket zone applying to the 43.5 hectares of land representing the Phase 1 and Phase 2 (Upper Lands) development areas. This zoning established uses and maximum permitted densities for a Neighbourhood Core and Residential Area, and provided for the 2010 Games Athlete's Village overlay. Subsequently, all of the lands within this zone were given parcel-specific zoning through Zoning Amendment Bylaw No. 1937, which was adopted on October 10, 2010. Under this bylaw, the Upper Lands were zoned UR1 (Urban Reserve One) zone, for future Phase 2 development. The URI zone was established with a range of residential uses for various housing types, along with an allocation of the maximum density that had been permitted under the LCCD-1 zone.

Further to the initiatives launched under the Mayor's Task Force on Resident Housing (established October 2016), to address a critical shortfall of employee housing, the RMOW initiated Master Planning for Phase 2 of the Cheakamus Crossing neighbourhood in July 2017. Brent Harley & Associates was engaged to prepare a land development suitability analysis and preliminary development concepts for the remaining land bank lands, including both the Upper Lands and the Lower Lands. Lands in both areas were evaluated for future development taking into consideration the existing developed neighbourhood, surrounding planning influences, land suitability and Whistler's housing needs. The report that was completed, *Cheakamus Crossing Development Master Planning – Second Phase – Site Analysis and Preliminary Concepts, May 2018*, was presented to Council in Information Report to Council - Mayor's Task Force on Resident Housing – Cheakamus Crossing Expansion Update, Report No. 18-087, June 19, 2018. This work was further refined by IBI Group, on behalf of the Whistler 2020

Development Corporation (WDC), to determine the potential development program and buildout potential of the respective lands. Further due diligence work was completed regarding various technical considerations. This work and plans for the next phase of the Cheakamus Crossing neighbourhood were presented at a public open house held on October 1, 2018.

Subsequently, the initial development site and "catalyst" project were determined and planning focused on design development for this initial project. This project, referred to as "Parcel A" of the Upper Lands, and the adjacent Mt. Fee Road extension, are now before Council for development permit approval under DP1760. Along with the detailed design development for this project, the WDC carried forward with development of plans for parcelization of the complete Upper Lands, similar to the process conducted for the Phase 1 lands. This parcelization plan is the subject of the current rezoning application, whereby, individual parcel areas within the existing UR1 zone are proposed to be identified for specific housing types, with allocations of the total existing density for the zone assigned to each parcel area. This parcelization will facilitate the future subdivision and phased development of individual parcels to meet the employee housing needs of the resort community consistent with the OCP.

Proposed Rezoning

The proposed rezoning is described in the Rezoning Application Summary, presented in Appendix "B". A copy of the current zone regulations for the UR1 zone is provided in Appendix "C". The intent of the zone is to: "...provide an area reserved for multifamily residential development for employee housing and associated uses."

The existing zoning permits employee restricted and market residential uses in apartments, detached dwellings, duplexes, townhouses and live work units, as well as park and playground and auxiliary buildings and uses. The proposed rezoning does not propose any change in permitted uses, except to add daycare as a permitted use, should this use be considered a feasible opportunity for integration with future residential developments to be located within the Upper Lands.

The maximum permitted density for the zone, is a maximum gross floor area of 41,850 square metres, for all buildings in the zone. The zone currently has a minimum parcel size area of 15.49 hectares. This equates to an overall floor space ratio for the lands of 0.27. The proposed rezoning would amend the minimum parcel size to allow the parcelization and subdivision of the lands.

The zoning also specifies the maximum sizes for the various building/units types, maximum building heights, and building setbacks. No changes are proposed to the maximum sizes or heights. Parcel specific setbacks are proposed for each of the future parcels based on the building type and location.

No other changes to the existing zoning are proposed.

OTHER POLICY CONSIDERATIONS

Zoning and Parking Bylaw No. 303, 2015

An analysis of the current and proposed zoning is provided above and is further described in the Rezoning Application Summary provided in Appendix "B".

Official Community Plan Bylaw No. 2199, 2018

The proposed rezoning is consistent with the policies of the Official Community Plan (OCP).

The subject lands are designated as Residential – Reserve in Schedule A of the Official Community Plan. Residential – Reserve lands are: "Lands available for employee housing with a variety of housing forms and densities. These lands may be developed as needed to meet the municipality's housing needs. Limited market residential and convenience commercial uses primarily oriented to meet the needs of the surrounding neighbourhood are included."

The policies contained in Chapter 5 Land Use and Development, Residential Accommodation, provide further guidance for this designation and the development of these lands. The overarching goal, Goal 5.1, is to: Meet Whistler's long-term housing needs consistent with the growth management policies and land use designations in the OCP. The associated objectives (5.1.1 and 5.1.2) address the designation of lands for various forms of residential development to meet Whistler's diverse housing needs, and the on-going commitment to house at least 75 percent of Whistler's workforce within the resort community in livable, appropriate and affordable housing.

Select policies that specifically pertain to the lands and proposed parcelization for future phased development are as follows:

- 5.1.1.2 Policy Maximize utilization of Residential Reserve lands for employee housing and phased development as required to support Whistler's employee housing needs.
- 5.1.2.4 Policy Pursue development of Residential Reserve lands in Cheakamus Crossing within the next five years, as one of the primary opportunities for new employee housing.

The parcelization plan and allocation of proposed density and uses is also consistent with Goal 5.3 to: Promote a diversity of housing forms, tenures, residential uses and densities to support the resort community's housing needs.

The lands are designated within the Municipal Water System Service Area, Municipal Sewer System Service Area, and Area B – District Energy Expansion Area.

Development of the lands is subject to development permit approval requirements and consistency with guidelines for the following OCP development permit area designations:

- Multi-family Residential Form and Character
- Protection of Riparian Ecosystems
- Protection of Sensitive Ecosystems
- Wildfire Protection

The proposed rezoning does not propose to increase the accommodation bed unit capacity, alter the Whistler Urban Development Containment Area, or alter the Whistler Land Use Map and Designations.

The proposed rezoning also does not propose additional development or a change in land uses beyond what is currently permitted under the UR1 zone, except for the addition of daycare as a permitted use. The OCP provides for this use to be located anywhere within the municipality, subject to municipal zoning requirements and the policies of the OCP.

Further review of the rezoning application will be conducted against the policies of the OCP, subsequent to Council direction for further review and processing.

BUDGET CONSIDERATIONS

The proposed rezoning application is subject to rezoning application fees and cost recovery for staff processing and associated direct costs.

COMMUNITY ENGAGEMENT AND CONSULTATION

An information sign describing RZ1165 is posted on the site. There have been no inquiries from the public to date.

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The Phase 2 development of the Cheakamus Crossing Upper Lands has been one of the key initiatives communicated through the engagements conducted as part of the Mayor's Task Force on Resident Housing (2016-2018). As described above a Public Open House was conducted specifically for the Master Planning of the Phase 2 development on October 1, 2018.

As this stage, the WDC has now completed detailed design development for the Parcel "A" project, and the overall Master Plan concept and parcelization plan for the Upper Lands. Staff recommends that prior to consideration of a bylaw for the proposed rezoning, a further public information and input opportunity be conducted. Given the current COVID-19 situation, it is recommended that this follow the format recently adopted by the RMOW for online and virtual community engagement for significant rezonings.

The proposed rezoning will also be subject to a statutory public hearing.

SUMMARY

RZ1165 proposes to amend the existing minimum parcel size for the UR1 zone to facilitate the future subdivision and phased development of the Cheakamus Crossing Upper Lands, with an allocation of the existing permitted density and uses to corresponding parcels to be established within the zone. In addition the proposal is to establish building setbacks for each parcel and to add daycare as a permitted use. The report recommends that Council endorse further consideration of the proposed rezoning and directs staff to conduct a public information and input opportunity prior to Council consideration of a zoning amendment bylaw.

Respectfully submitted,

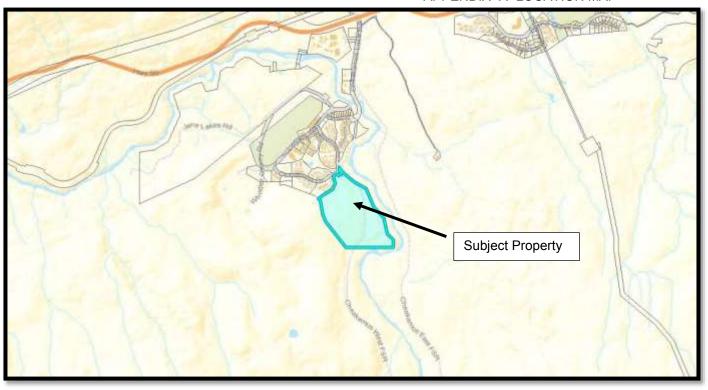
Mike Kirkegaard
DIRECTOR OF PLANNING

for

Toni Metcalf

INTERIM GENERAL MANAGER OF RESORT EXPERIENCE

APPENDIX "A" LOCATION MAP





Rezoning Application for Cheakamus Crossing Phase II

Parcel Legal Description

BLOCK A DISTRICT LOT 8073 NEW WESTMINSTER DISTRICT GROUP 1, EXCEPT PLAN EPP277

Location and Context

Cheakamus Crossing is located on the south side of the Highway 99 approximately 8km south of Whistler Village. The Cheakamus Crossing Phase II lands, also called the 'Upper Lands', are located at the southeast end of the Cheakamus Crossing neighbourhood adjacent to the Cheakamus River and accessed via upper Mt. Fee Road.

Historical Planning and Analyses

A number of planning processes and technical analyses have preceded this report, and information about them can be referenced in these documents:

- Cheakamus Crossing Development Second Phase Technical Memo, Sept 2018, KWL
- Preliminary Geotechnical Investigation Report Cheakamus Crossing Phase 2, August 2018, GeoPacfic Consultants Ltd.
- Cheakamus Crossing Development Master Planning Second Phase Site Analysis and Preliminary Concepts, May 2018, BHA
- Cheakamus Area Legacy Neighbourhood Design Guidelines, March 2007

Development Objectives

The objectives of the proposed development are to:

- Meet the current and future housing needs of the community through a diversity of housing types (including a range of options for rental and ownership) and density comparable to and compatible with the existing Cheakamus Crossing neighbourhood
- Maximize the resident restricted housing opportunity, while considering limited market housing
- Protect as much of the site as possible and undertaking the development in an environmentally sensitive manner.
- Optimize livability with an offering of unit types that meets the residents' needs and expectations. This includes providing adequate secured storage and appropriate parking.

Access to the Property

Cheakamus Crossing is accessible from Highway 99 via a paved 8m wide vehicular access along Cheakamus Lake Road across the Walter Zebrowski Bridge over the Cheakamus River. Connections to the neighbourhood are also available via the Valley Trail and other pedestrian trails and bicycle trails as well as Forest Service Roads (FSRs) leading to and from the neighbourhood providing access to the forest and recreation lands beyond.

Vehicle access to the Cheakamus Crossing Phase II parcel from the bridge is along Legacy Way then via Mt. Fee Road uphill towards the intersection of Cloudburst Drive.

It is understood that the single lane West Side Main FSR Bridge will be maintained for emergency egress as well as access to the Cheakamus River parking lots and House Rock recreation areas. It is also the intention that the bulk of the construction service traffic will be routed across this bridge and along the FSR until such time as the Mt. Fee Road extension has been completed.

Adjacent Amenities and Services

Services within the existing Cheakamus Crossing neighbourhood include a daycare, café, convenience store and professional services. Cheakamus Crossing has significant recreation amenities within and around Bayly Park (600m away), including a turf field, tennis courts, outdoor basketball and hockey surfaces, BMX track, children playground and sand volleyball courts.

The adjacent neighbourhood of Function Junction (1.5km away) provides commercial and retail amenities with a wide range of offerings including: restaurants, micro-breweries, cafes, bakery, coffee shops, distillery, gyms, hardware stores, garden centre, home decor, art gallery, office supply, pet store, and professional services. Additionally, play fields, a playground and a community school is located in nearby Spring Creek (2.5 km away).

Adjacent Industrial and Resource Land Uses

The neighbourhood is surrounded by the Cheakamus Community Forest, which is an active logging operation; however, no logging is proposed to occur with 1km of the neighbourhood with the exception of ongoing fuel reduction/thinning. Most areas adjacent to the neighbourhood are protected forest lands.

Future logging truck and industrial use access is planned for a route through the Whistler Aggregates gravel pit and along the Basalt Valley Forest Service Road (FSR). This route is partially complete, and completion would be aligned with future logging schedules. The creation of the Mt. Fee Road extension would facilitate decommissioning the current West Side Main FSR that bisects the site. Beyond the south boundary of the parcel, the FSR will be maintained, ultimately linking the Basalt Valley FSR and providing access to the recreation and industrial areas beyond.

The existing gravel pit and open quarry located to the west of Cheakamus Crossing remains in operation. Operating licences have been extended to 2027 as outlined in the ten year renewal of the licence of occupation for Whistler Aggregates in September 2017. The asphalt plant is also located within this licence area.

Existing Conditions

Recreation trails surround and bisect the 15.49 hectare parcel. The West Side Main Forest Service Road intersects the eastern portion of the parcel. The site is undulating and well-treed, with the exception of a cleared and leveled area at the north end of the site that is currently used for neighbourhood parking.

Existing Land Use and Zoning

Within in the existing neighbourhood of Cheakamus Crossing, there are a mix of land uses including residential, mixed use, commercial, recreation, and short term accommodation at the Athletes' Lodge and Hostel with more remote portions of industrial lands. The Cheakamus Phase II lands are zoned as

Urban Reserve 1 (UR1); permitted uses include a mix of residential options as well as park and playgrounds.

Proposed Rezoning Overview

The intention of the proposal is not to change the current land uses permitted within the UR1 zone; rather, this application is being submitted primarily to allow for smaller parcels than the minimum currently allowed within the zone, and secondarily to modify setbacks to better suit the different types of housing proposed.

The proposed rezoning would enable the Phase II parcel to be subdivided into seven smaller parcels. In keeping with the names used in previous site plans, the parcels are named A, B, C, D1, D2, D3 and E. They are in sequential order, starting at the site access point at the top of Mt. Fee Road and continuing southward to the cul-de-sac, with Parcel E as the final parcel on the western flank.

The entire site will be accessed via the proposed 600m long municipal roadway extending from upper Mt. Fee Road to a cul-de-sac/round-about at the southern end of the property. The Parcels A through D3 are predominately located on eastern/river side of the roadway with the exception of Parcel D1 on the west side of the road.

An extensive iterative and detailed design process has resulted in the proposed subdivision layout. Robust and thorough site planning, civil servicing design, earthwork analysis, constructability review, architectural design, site access considerations and building massing supported by extensive 3D modelling and view analyses for the entire parcel has resulted in what we believe to be a highly desirable and extremely viable solution that will help to meet the current and future needs of the community.

A summary of the parcel sizes and the current proposed use is outlined below.

Parcel	Size	Primary Housing Type
Α	10,982 sqm	Apartment (3-4 storey)
В	2,332 sqm	Townhome (2 storey)
С	7,445 sqm	Apartment (3 storey)
D1	10,203 sqm	Apartment (2-4 storey)
D2	9,782 sqm	Townhome (2 storey)
D3	16,753 sqm	Duplex and Detached (Market)
E	74,679 sqm	Reserve lands for future
Road and Park	remainder	Road and park dedication and
Dedication		ancillary uses

Table 1. Summary of parcel sizes

Density mix and unit types

The proposed Phase II development has been designed to accommodate a diverse mix of resident restricted housing, supported with market housing as was done in the first phase of Cheakamus Crossing.

The number and type of units will be adjusted as needed over time to best suit community needs as they evolve over the course of the phased development. Since the commencement of the project, the mix of units has already been adjusted to suit the emerging demands of Whistler residents as identified

by the Whistler Housing Authority needs assessment. This assessment will continue to influence the mix of unit types over time.

The following table presents the current anticipated mix of unit type by parcel and provides a reasonable guideline for civil servicing design criteria and future planning. This is subject to change based on a number of external factors that may influence housing demand.

Unit Type	Parcel A	В	Parcel C	Parcel D1	Parcel D2	area/unit
1 bedroom	24		15	32	16	585 sqft
2 bedroom	48		9	33	8	835 sqft
2 bedroom (corner)	20	4	8	8	10	855 sqft
3 bedroom (corner)	8	4	4	4	12	1055 sqft
Total	100	8	36	77	46	
Summary of unit mix by type: 1 bedroom (33%) 2 bedroom (55%) 3 bedroom (12%)						

Table 2. Anticipated mix of unit type by parcel

Development Phasing

In addition to preliminary design for each of the parcels, detailed architectural design and site planning has been completed for Parcel A. Parcel A would result in two apartment buildings with a combined total of 100 units, comprised of a mix of one-, two- and three-bedroom units. Vehicle parking will be predominantly underground with some surface parking for over-height vehicles. Parcel A is at the north end of the site and can be easily accessed with nominal earthworks; as such, it is the most logical parcel to develop first.

While subsequent phases of development are subject to change based on funding and market demand, it is anticipated that the second phase of development would be Parcel D3. The location of this parcel is well separated from Parcel A and could proceed easily without impacting other construction underway. Furthermore, it would provide additional area for storage and processing of materials (e.g. aggregates) required in other areas of the project. Market detached and duplex lots are proposed for this parcel to address WDC debt to the RMOW and provide equity for Phase II infrastructure and rental buildings.

The third phase of development would likely be Parcel B, which is a small, accessible parcel that would likely have its initial site works completed in parallel with Parcel A in order to provide crew parking and materials storage.

The table below outlines the anticipated phases of development that will be adjusted as needed to accommodate market conditions and housing demand.

Phase	Parcel	Housing Type	Units (approx.)
1	Α	Apartment	100
2	D3	Detached/Duplex	17-40
3	В	Townhome	8
4	С	Apartment	36
5	D1	Apartment	77
6	D2	Townhome	26
7	E	TBC	TBC

Table 3. Likely Phases of Development

Proposed Changes to the Existing Zoning

Item	Current zoning	Proposed zoning
Permitted uses	Residential, Parks and	No change
	Playgrounds	
Maximum permitted gross floor	41,850 sqm	No change
area of all buildings		
Maximum permitted size for a	325 sqm	No change
detached dwelling		
Minimum permitted size for a	46.5 sqm	No change
detached dwelling		
Auxiliary residential dwelling	Maximum 90 sqm	Maximum as allowed under current
unit gross floor area	Minimum 32.5 sqm	BC Building Code
		Minimum – no change
Maximum permitted size for	175 sqm	209 sqm
any other dwelling	·	·
Maximum permitted floor area	Detached dwelling:	60 sqm for detached dwellings
for auxiliary parking use	55 sqm per parcel	No change for other uses
contained in a principal or	Duplexes:	
auxiliary dwelling or structure	50 sqm per dwelling unit	
	Townhouses:	
	40 sqm per dwelling unit	
Maximum permitted height	Apartments: 18.0m	No change
	Detached Dwellings: 8.0m	
	Duplexes: 8.2m	
	Live Work Units: 12.0m	
	Townhouses: 10.7m	
Minimum permitted parcel area	15.49 hectares	500 sqm
Setbacks	For all uses:	Apartment:
	Front setback 6.0m	Front 6.0m, Rear 2.0m, Side 6.0m
		Multi-family:
	Rear setback 6.0m	Front 6.0m, Rear 3.0m, Side 6.0m
		Single Family and Duplex:
	Side setback 6.0m	Front 5.0m, Rear 3.0m , Side 3.0m
Parking	As outlined in accordance	Duplexes provide 2 spaces for
	to Part 6 of the zoning	dwelling unit
	bylaw except that	
	Duplexes provide 1.5	Townhouse and Apartment to
	spaces for dwelling unit and	provide – no change
	Townhouse and Apartment	
	need only provide 75% of	
	the parking spaces required	
	under Part 6 of the Zoning	
	bylaw	
Maximum Occupancy per	Two	No change
Bedroom		

Table 4. Changes proposed as part of this rezoning application.

Environmental Consideration

Riparian areas are located along the Cheakamus River and border the south and eastern edge of the Phase II site. The 30m riparian setbacks will be maintained throughout this zone and many areas exceed 40m. Some wetland pockets and associated riparian areas exist within the parcel; applicable setbacks will be maintained and monitored by Qualified Environmental Professionals. It has been proposed that building envelopes setbacks are an additional 3m from the 30m riparian area setback.

Parks and Preservation Areas

The Phase II parcel is surrounded almost entirely by Crown land and mature forests. Riverside trails along the south and east flanks of the property provide good connectivity to wild spaces beyond the parcel. In addition to the preservation areas identified as Cheakamus River riparian zone and the wetland zones in Parcel A and Parcel E, a centralized natural preservation area mid-way along the Mt. Fee Road extension between Parcel C and D2 will provide forested connectivity to the vegetated area adjacent to the Cheakamus River. This centralized preservation area will provide a forested element at the heart of the parcel and provide wildlife and trail connectivity throughout the life of the project rather than just at completion of construction when all parcels are connected to the adjacent trail network.

Each parcel will have localized landscape areas specific to the needs and scale of the development, and that meet municipal permit guidelines. Parcel D2 has potential for a pocket park that would provide enhanced and accessible green space to support play and social connections.

Trail connectivity

The Riverside Trail will be maintained in its entirety with some minor realignments proposed in areas where necessary. Trail connections linking the proposed neighbourhood development phases are proposed to ensure ease of access to the Riverside Trail from within each developed parcel.

The Ridge Shortcut Trail from the Westside parking lot will be realigned to suit the development of the upper Parcel E at a suitable time in the future.

The Lower Ridge Trail would remain undisturbed, and suitable trail connectivity to Parcel E will be developed in concert with the subdivision layout at that time.

The Valley Trail will be extended from the intersection of Mt. Fee Road and Cloudburst Drive along the entire length of the new Mt. Fee Road extension to the round-about at the south end of the parcel, providing safe and easy access to the trail from the entire development. The Valley Trail will be lit by standard Valley Trail lighting.

Roadway and Traffic Calming Considerations

The extension of the Mt. Fee Road will be built to municipal road standards and will accommodate two single lanes of traffic for a total travel width of 7m. This width is in concert with the road widths of lower Mt. Fee Road and Cloudburst Drive, both of which have a 7m width. The roadway proposed will be approximately 600m in length, and will terminate in a round-about/cul-de-sac at the southern end of the property. The roadway will provide access to lands beyond via the gravel FSR and also provide access to the final portion of the property (Parcel E).

As is the case throughout the rest of the Cheakamus Crossing, there will be no road-side parking. Pullins and lay-bys will be suitably located road-side in front of apartment buildings or on the individual parcels. These lay-bys will accommodate short-term stopping for pick-ups and drop-offs, as well as areas for temporary parking of moving vans, couriers, postal delivery workers and utility meter readers.

Crosswalks locations and street lighting provisions have been identified on detailed civil engineering plans to provide safe pedestrian movements at anticipated points of interaction with vehicles.

Snow Clearing Considerations

The 7m wide roadway has been designed to accommodate municipal snow clearing equipment with provision for vehicle turn around at the end of the Mt. Fee Road extension. The west side of the new road will have a standard ditch to accommodate snow storage and snow melt. Additional snow storage and snow plough push-zones have been accommodated near the surface parking area opposite Parcel A. No excess snow is to be stored within the centre of the cul-de-sac at the top of the Mt. Fee Road extension; doing so would impede visibility to pedestrians and oncoming traffic. The centre of the round-about would be planted with low-lying vegetation, allowing for natural levels of snow to accumulate while still maintaining good visibility. Snow management for each parcel will be planned for and handled on each site.

Locations of above-ground infrastructure such as fire hydrants, street lights, signage and Valley Trail lights will be suitably located to avoid damage from snow clearing equipment.

Valley Trail and sidewalk municipal design standards will be implemented throughout the subdivision to enable snow clearing by municipal equipment.

Transit Planning

Current transit access to Cheakamus Crossing is provided by a loop up Cloudburst Drive and down Mt. Fee Road. Access to transit for Parcel A and Parcel B can be accommodated by the existing transit route. The walk to the existing bus stop located at the top of Cloudburst Drive would be approximately 200m.

Transit access for the other Phase II parcels could be accommodated by furthering the transit route up the Mt. Fee Road extension. This up and back route would increase the transit route by 1.2km. Two transit stops have been identified and proposed along the new route; one stop near the end of the road above Parcel D1, and one adjacent to the forest parkland between Parcel C and D2. The latter should be considered for a shelter as it will likely see the most users.

The additional transit stops would not only provide service to Phase II residents, but also to recreation users in the area, including improved transit access to Loggers Lake.

The school bus service that already existing within Cheakamus Crossing could also extend its route up the Mt. Fee Road extension to better serve children living in the new homes.

Forest Service Roads

The existing West Side Main Forest Service Road that parallels the Cheakamus River and bisects the site will be maintained during the course of construction for public access and utility service providers. Upon completion of the new Mt. Fee Road extension, the portion of the Forest Service Road that runs through the Phase II Lands (at approximately the intersection of Mt. Fee Road and Cloudburst Drive) will be decommissioned.

Access to the Forest Service Road and the gravel parking area just beyond the site will be maintained via the new Mt. Fee Road extension.

Fire Protection

Municipal fire protection will be serviced by existing and proposed hydrants along the extension of Mt. Fee Road. The new housing will continue to be serviced by the Spring Creek fire hall located 2.5 km away.

Wildfire and Fire Smart Considerations

Wildfire and associated interface areas remain a considerable risk to the municipality and residential areas. As part of the ongoing fuel thinning practices, fuel reduction operations are planned along the Cheakamus Lake FSR and the area immediately to the southwest of Cheakamus Crossing.

Surface parking and Vehicle Charging Stations

A 19-stall asphalt surface parking area opposite Parcel A is proposed to provide over-height vehicle parking and additional parking for residents and visitors to the area. Consideration for conversion to pay parking for these stalls would be accommodated by providing power and a designated area for a parking kiosk. Additionally, electric vehicle charging stations have been planned for and could be accommodated in this parking lot should the municipality choose to include these at a future date.

The gravel parking lot located at the end of the Mt. Fee Road extension on Crown land will be maintained and will provide seasonal parking for recreational users.

Sanitary Sewer

A sewer main will be extended to the Phase II parcel and connected to the sanitary collection network at the top of Mt. Fee Road. A 200mm diameter sewer main is proposed for the length of the new Mt. Fee Road extension to service the subsequent parcels.

Water Supply

The Phase II lands are serviced from the municipal water reservoir on the west shoulder of Whistler Mountain above Cheakamus Crossing. This storage is sufficient to supply fire flows (197 L/s) for up to 2.5 hours. Currently, the site is supplied by a 200mm diameter water main located at the end of Mt. Fee Road. This water main will provide sufficient supply for domestic water and fire protection for Parcel A and potentially Parcel B.

Other parcels will require high pressure water supply which can be achieved by extending the 300mm diameter water main terminated near the cul-de-sac at the end of Madeley Place. The extension of this line is proposed to follow along the West Side Main Forest Service Road to the Phase II lands. Preliminary engineering design for this waterline extension has been completed.

Gas/Hydro/Telephone/Internet

BC Hydro and TELUS/Shaw service connections are available immediately adjacent to the Phase II parcel at the intersection of Mt. Fee Road and Cloudburst Drive. It is understood that there is sufficient capacity within the system for the proposed development. The FortisBC gas supply line would need to be extended from its current termination on Cloudburst Drive approximately 40m from the intersection. The extension of this line has been approved and there is sufficient capacity within the gas system to

meet future demands of the development. Currently, the gas line is proposed to extend the entire length of the road extension and to also provide future connection to Parcel E.

District Energy System

The current District Energy System (DES) employed throughout the existing Cheakamus Crossing neighbourhood will be expanded to include the Phase II area of development. Each parcel will be provided with a DES service connection to the property line, with optional connectivity to the DES infrastructure.

The current DES system has sufficient heat capability to provide more thermal energy, but as energy demands are increased, upgrades to the gas-fired boilers or the heat exchangers may be required. Similarly, as demands increase, an additional circulation pump(s) may be required at the DES energy building.

Expansion of the DES into this Phase II area should not require any upgrades to the existing piping infrastructure within the current neighbourhood. However, in order to accommodate development higher in elevation than the existing system, the operating pressure of the DES loop system would need to be increased. Furthermore, vertical development (greater than 15m to 20m) beyond the current high-point of the loop at intersection of Mt. Fee Road and Cloudburst Drive, may require the installation of a booster pump station and/or pressure reducing station in order to extend the DES loop to the higher development areas. A booster pump station could be accommodated north of the surface parking area opposite Parcel A.

It is understood that the impacts of additional demands on the DES system are under review by consultants retained by the Municipality and further recommendations will follow upon completion of their assessment.

Stormwater

The stormwater design for Phase II builds on the original design for the Cheakamus neighbourhood. The design envisioned a portion of Phase II development would drain directly into the Cheakamus River and a portion would drain towards the central pond located behind the Whistler Athletes' Centre.

The existing downstream drainage system has the capacity to receive the flows from Parcel A. This includes capacity for peak flow conveyance to the central pond and downstream of the pond, as well as detention capacity in the pond and water quality treatment in the pond.

The drainage systems for other upland catchment areas will discharge directly into the river and will require further review in parallel with the detailed designs for the parcels.

Due to high costs of construction and maintenance for the rain garden style of stormwater management employed throughout the rest of Cheakamus Crossing, more traditional forms of stormwater management (e.g. roadside ditch) are proposed for the Phase II site.

Groundwater Considerations

The static ground water table was not encountered during geotechnical investigations and it is expected to be below development grades. Perched groundwater levels are expected to be very seasonal with generally higher levels following sustained precipitation. Perched groundwater conditions may be encountered within the existing fill materials where permeable soils exist over less permeable soils or bedrock.

Geotechnical Considerations

Overall, the site is considered very low risk with respect to geotechnical hazards. Given the dense soil and rock conditions found on site and the average slope angle (1.6H:1V to 1.8H:1V) it is expected that the risk of slope instability would be low.

Based on site investigations, competent native soils can be found at relatively shallow depths. Some localized blasting or chipping may be required to excavate below grade structures where bedrock exists.

It is expected that structures will be founded on conventional pad and strip footings bearing on native dense sand, gravel or bedrock.

Hydrology and Flood Hazard Considerations

The proposed development area is substantially set back (30m or more) from the river. While there is potential for erosion in the riparian areas, the erosion risk to the proposed development is minimal given the substantial setbacks and the extensive bedrock conditions.

The 200-year clear-water flood (including 1.3m freeboard) is well contained by the natural topography of the Cheakamus River along the entire site. Due to the depth of the river channel, the site is not subject to risk of flooding from the Cheakamus River as indicated in consultant reports. The Flood Hazard Area Land Use Management Guidelines published by the Province establish the designated flood as the 200 year period event. Consultants have evaluated the flood hazard on the basis of this standard and have prepared a plan to mitigate the hazards to the proposed development. Applying this standard with due consideration of the conditions and mitigation of the risks, the land may be used safely for the intended purpose. Minimum building elevations have been established to mitigate flood hazard risk.

Cross sections of the river at intervals adjacent to the site were surveyed in 2007 and 2019. These cross sections have been compared and the variation over time is negligible. Differences observed are largely due to the more detailed surveying completed in 2019 (particularly through the water column) compared to 2007. The upland river banks are very similar, suggesting negligible change to existing conditions.

Canada Post and Community Mailbox Considerations

Currently, postal boxes are proposed for each of the buildings within the lobby area or within the strata parcel. However, in the event that Canada Post requires provision for community mailboxes or at a centralized area, an area has been designated just north of the surface parking area at the entrance to the neighbourhood opposite Parcel A. This location would provide convenient access for residents and centralized mail delivery.

Market Housing

In order to offset the costs of the Phase II development, some market housing will be required as part of the proposed development. Allowance for market housing is currently permitted within the zoning bylaw and this would remain unchanged.

67. UR1 Zone (Urban Reserve 1) (Bylaw No. 1937)

<u>Intent</u>

(1) The intent of this zone is to provide an area reserved for multifamily residential development for employee housing and associated uses.

Permitted Uses

- (2) The following uses are permitted and all other uses are prohibited:
 - (a) Apartments
 - (b) Apartments for employee housing
 - (c) Auxiliary buildings and uses
 - (d) Auxiliary residential dwelling unit provided it is contained in a detached dwelling.
 - (e) Detached Dwellings
 - (f) Duplexes
 - (g) Duplexes for employee housing
 - (h) Live work units
 - (i) Live work units for employee housing
 - (j) Park and playground
 - (k) Townhouses
 - (I) Townhouses for employee housing

Density

- (3) The maximum permitted gross floor area of all buildings in the zone is 41,850 square metres.
- (4) The maximum permitted size for a detached dwelling is 325 square metres.
- (5) The minimum permitted size for a detached dwelling is 46.5 square metres.
- (6) An auxiliary residential dwelling unit shall contain a gross floor area no greater than 90 square metres and no less than 32.5 square metres.
- (7) The maximum permitted size for any other dwelling unit is 175 square metres.

(8) The maximum permitted floor area for auxiliary parking use contained in a principal or auxiliary building or structure is shown in the accompanying table:

Use	Maximum Enclosed Parking Area
Detached Dwellings	55 square metres per parcel
Duplexes	50 square metres per dwelling unit
Townhouses	40 square metres per dwelling unit

Height

(9) The maximum permitted height of a principal use building is shown in the accompanying table:

Use	Maximum Building Height
Apartments	18.0 m
Detached Dwellings	8.0 m
Duplexes	8.2 m
Live Work Units	12.0 m
Townhouses	10.7 m

Parcel and Site Area

(10) The minimum permitted parcel area is 15.49 hectares.

Setbacks and Siting

- (11) No building shall be located within 6 metres of any parcel line.
- (12) The minimum permitted separation between buildings is 4 metres.

Off-Street Parking and Loading

(13) Off-street parking and loading spaces shall be provided and maintained in accordance with the regulations contained in Part 6 of this Bylaw except that, in relation to duplex dwellings, the owner must provide at least 1.5 spaces per dwelling unit; and in relation to townhouse and apartment dwellings, the owner need only provide 75 percent of the number of parking spaces that would normally be required under Part 6.

Other Regulations

(14) The maximum occupancy is two persons per bedroom.