Have Your Say. Notice of Waiving Public Hearing

Bylaw 2943: Being a bylaw to amend Electoral Area 'G' Land Use Bylaw No. 2452, 2018. The purpose of the proposed amendment is to rezone the subject property from Tourist Commercial (C2) to Rumbling Creek Tourist Commercial (C3) in order to facilitate the development of tourist accommodations and associated buildings on a 1 hectare property with on-site servicing.

Location and Legal Description:

4626 Highway 6, Electoral Area 'G' LOT 1 DISTRICT LOT 1241 KOOTENAY DISTRICT PLAN EPP121813 (PID: 031-873-529)



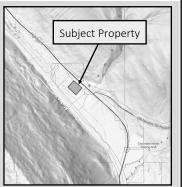
Review the proposed amendments from March 18, 2024 - April 18, 2024 Online: www.rdck.ca/landuseapplications In Person: RDCK, 202 Lakeside Drive, Nelson BC Mon - Fri: 8:30 am - 4:30 pm

Tell us what you think.

Written submissions can be made directly to the Regional District by mail, email or dropped off in person prior to 4:00 pm on April 18, 2024 *



*All written submissions are public information pursuant to the Freedom of Information and Protection of Privacy Act. rdck.ca Please direct enquiries to Zachari Giacomazzo | 250.352.8190 | zgiacomazzo@rdck.bc.ca



REGIONAL DISTRICT OF CENTRAL KOOTENAY

Bylaw No. 2943, 2024

A Bylaw to amend Electoral Area 'G' Land Use Bylaw No. 2452, 2018

WHEREAS it is deemed expedient to amend the Electoral Area 'G' Land Use Bylaw No. 2452, 2018, and amendments thereto.

NOW THEREFORE the Board of the Regional District of Central Kootenay, in open meeting assembled, HEREBY ENACTS as follows:

APPLICATION

- 1 That Schedule 'B.1' of Electoral Area 'G' Land Use Bylaw No. 2452, 2018 be amended by changing the Zoning from Tourist Commercial (C2) to Rumbling Creek Tourist Commercial (C3) for LOT 1 DISTRICT LOT 1241 KOOTENAY DISTRICT PLAN EPP121813 (PID: 031-873-529), as shown on Schedule 'A' which is attached hereto and forms part of this bylaw:
 - a. ADDING the following:

25.B.0 RUMBLING CREEK TOURIST COMMERCIAL (C3)

PERM	ITTED USES TABLE FOR C3 ZONE
1	Principal Uses
	Artisan Craft Production and Sales
	Breweries and Distilleries
	Dwellings, Multi-Family
	Tourist Accommodation
	Interpretive Facilities
	Mixed Use Development
	Museum
	Outdoor Recreational Activities
	Resort
	Vacation Rental
	Accessory Uses to 'Tourist Accommodation' and 'Campgrounds'
	Laundromat
	Liquor Store
	Personal Service Establishment
	Retail Store
	Accessory Uses
	Accessory Building or Structures
	Accessory Dwelling

Campground
Eating and Drinking Establishment

DEVEL	OPMENT REGULATIONS TABLE FOR C3 ZONE	
	Minimum lot area for each Principal Use:	
	Community Water System and Community	
	Wastewater System	
	Tourist Accommodation, Resort	
	First sleeping room	0.2 hectares
	Each additional sleeping room	200 square metres
	Other permitted uses	0.2 hectares
	Community Water System and On-site Wastewater	
	Disposal or Individual Water Source and	
	Community Wastewater System	
	Tourist Accommodation, Resort	
	First sleeping room	0.4 hectares
	Each additional sleeping room	400 square metres
	Other permitted uses	0.4 hectares
	On-site Water Source and On-site Wastewater	
	Disposal	
	Tourist Accommodation, Resort	
	First sleeping room	0.5 hectare
	Each additional sleeping room	450 square metres
	Other permitted uses	1.0 hectares
2	Maximum number of Cabins	8
3	Minimum front setback	4.5 metres
4	Minimum exterior side setback	4.5 metres
5	Minimum interior side setback	2.5 metres
6	Minimum rear setback	2.5 metres
7	Maximum Lot Coverage	50 percent
8	Maximum building height:	
	Main Hall Building	10.0 metres
	Cabins	7.0 metres
	Accessory buildings and structures	6.0 metres
9	Maximum building footprint for a 1 bedroom Cabin	87 square metres
	Maximum building footprint for a 2 Bedroom Cabin	112 square metres
10	Minimum lot area for subdivision:	
	Community Water System and Community	0.1 hectares
	Wastewater System	
	Community Water System and On-site Wastewater	0.2 hectares
	Disposal	
		0.2 hectares

Individual Water Source and Community	
Wastewater System	1.0 hectares
Individual Water Source and On-site Wastewater	
Disposal	

2 This Bylaw shall come into force and effect upon its adoption.

CITATION

3 This Bylaw may be cited as "Electoral Area 'G' Land Use Amendment Bylaw No. 2943, 2024"

READ A FIRST TIME this	15 th	day of	February,	2024.
READ A SECOND TIME this	15 th	day of	February,	2024.
WHEREAS A PUBLIC HEARING V	was held this [Da	te] day of	[Month] ,	2024.
READ A THIRD TIME this	[Date]	day of	[Month] ,	2024.
APPROVED under Section 52 (3 [Month] , 20XX		sportation Act this [Date	e] day of	
Approval Authority,				
Ministry of Transportation and	Infrastructure			
ADOPTED this	ХХ	day of	XX, 202X.	

Aimee Watson, Board Chair

Mike Morrison, Corporate Officer



Committee Report

Date of Report: Date & Type of Meeting: Author: Subject: File: Electoral Area/Municipality January 30, 2024 February 14, 2024 – Rural Affairs Committee Zachari Giacomazzo, Planner BYLAW AMENDMENT Z2304G – Rumbling Creek Resort G

SECTION 1: EXECUTIVE SUMMARY

The purpose of this report is for the Regional Board to consider an application for a zoning bylaw amendment in Electoral Area 'G' to facilitate the development of tourist accommodations and associated buildings on a property with on-site servicing. The Zoning Bylaw currently prohibits the proposed density of the use due to size limitations of the lot.

In order to authorize the proposed tourist accommodation use with a total of 12 sleeping rooms and a multipurpose building with an event space and an Eating and Drinking Establishment on the subject property, this application seeks to amend the zoning of the subject property from Tourist Commercial (C2) to Rumbling Creek Tourist Commercial (C3) which would be a new zone created specifically for this property.

Staff recommend that Amending Bylaw No. 2943, 2024 being a bylaw to amend Electoral Area 'G' Land Use Bylaw No. 2452, 2018 be given FIRST and SECOND reading by content and that Staff be directed to provide notice that the public hearing is being waived in accordance with Sections 466 and 467 of the Local Government Act.

SECTION 2: BACKGROUND/ANALYSIS

Property Owner: Rumbling Creek Resort Ltd.

Property Location: 4626 Highway 6, Hall Siding Electoral Area 'G'

GENERAL INFORMATION

Property Size: 1.0 hectare

Current Zoning: T	ourist Commercial (C2) - Salmo River Valley Electoral Area G Land Use Bylaw No. 2452,
2018	
Current Official Co	ommunity Plan Designation: Tourist Commercial (TC) - Salmo River Valley Electoral
Area G Land Use B	ylaw No. 2452, 2018
SURROUNDING LA	AND USES
North: Tourist Cor	nmercial (C2)
East: Public Utility	(U) and Forest Reserve (FR)
South: Tourist Cor	nmercial (C2)

Legal Description: LOT 1 DISTRICT LOT 1241 KOOTENAY DISTRICT PLAN EPP121813 (PID: 031-873-529)



Background and Site Context

The subject property is located in Electoral Area 'G' on Highway 6, approximately 10 km south of the City of Nelson just north of the turnoff for Whitewater Ski Hill Road. The property is presently vacant and has been improved with a new road access/driveway that is shared with the adjacent property.

This property is designated Tourist Commercial (TC) and is zoned Tourist Commercial (C2) under the Electoral Area 'G' Land Use Bylaw No. 2452, 2018. There are three other properties zoned Tourist Commercial near the subject property. Other surrounding uses in the area include Parks and Recreation (PR), Forest Reserve (FR) and Resource Area (RA) and Public Utility (U). See "Figure 2" for zoning designations of the surrounding properties. The property is located in close proximity to the Nelson Nordic Ski Club Area.

Land Use Bylaw Amendments Proposed

The purpose of this application is to rezone the subject property from Tourist Commercial (C2) to Rumbling Creek Tourist Commercial (C3). This is being sought to facilitate the development of tourist accommodations and associated buildings on the subject property with on-site servicing (septic system and drilled well). The proposed development includes eight cabins with a total of twelve sleeping rooms as well as one communal building. The Site Plan is included as Attachment 'B' and includes details on the proposed layout of the buildings and parking areas. The communal building is proposed to contain a commercial kitchen, laundry facilities and storage space as well as a coffee shop that will be open to the public. The communal building is also intended to be used as an event space (e.g. wedding venue) which is considered incidental and related to the Tourist Accommodation Use. The draft amending bylaw is included as Attachment 'A' to this report.



Figure 1: Overview Map

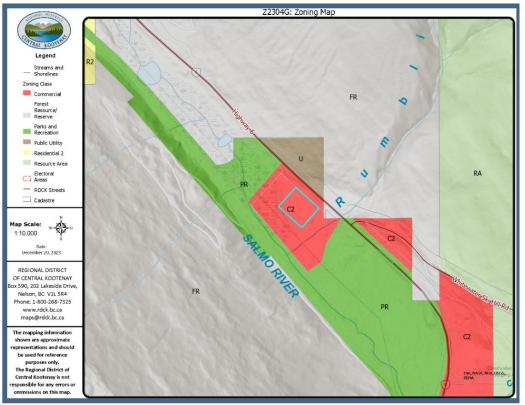


Figure 2: Zoning Map



Figure 3: Subject property facing southwest from Highway 6



Figure 4: Subject Property facing Northwest

Planning Policy

Electoral Area 'G' Land Use Bylaw No. 2452, 2018

4.0 COMMERCIAL AND INDUSTRIAL

Commercial Objectives

- 1. Enhance the long term vitality and economic sustainability of the Plan area by supporting new and existing businesses and the creation of employment.
- 2. Provide for commercial activities servicing the needs of local residents and visitors
- 3. Recognize the commercial and service center role of the City of Nelson and Village of Salmo and direct that commercial development in the rural communities will primarily be oriented toward serving local community needs and visitor needs.

Tourist Commercial Policies

The regional Board:

8. Anticipates that tourist commercial needs will be accommodated throughout the Plan area on lands designated as such on Schedule A.1 mapping

- 9. Encourages the development of a range of tourist accommodation types including campgrounds, lodges, resorts, and bed and breakfast establishments to diversify tourism opportunities in the community.
- 10. Enable commercial outdoor recreation, resort commercial, agri-tourism and ecotourism opportunities such as trail rides, campgrounds and wilderness tours provided they do not have demonstrated detrimental impact on important habitat, riparian areas, or adjacent land uses.

Public Hearing Not Required

The proposed Rumbling Creek Tourist Commercial (C3) zone is consistent with the Commercial Objectives and Tourist Commercial Policies in the Electoral Area 'G' Official Community Plan and the subject property will retain the existing Tourist Commercial (TC) Land Use designation. Because the proposed zoning change is consistent with the OCP, a public hearing is not required, pursuant to S. 464 (2) of the Local Government Act, which is copied in Section 3.2 below for convenience. Given that consistency with the OCP, and that there has not been any concerns raised by neighbouring residents during the referral period, Staff recommend that a public hearing not be required. However, there is no prohibition on holding a public hearing, and this could be done, should the Board prefer that one be held prior to further consideration of the amending bylaw.

SECTION 3: DETAILED ANALYSIS		
3.1 Financial Considerations – Cost	and Resource Allocati	ions:
Included in Financial Plan:	🗌 Yes 🛛 No	Financial Plan Amendment: 🛛 Yes 🖂 No
Debt Bylaw Required:	🗌 Yes 🛛 No	Public/Gov't Approvals Required: 🗌 Yes 🖂 No
Pursuant to Planning Fees and Proce	dures Bylaw No. 2457	7, 2015 the applicant has paid the Land Use Bylaw
amendment fee of \$1600 in full.		

3.2 Legislative Considerations (Applicable Policies and/or Bylaws):

The application was processed in accordance with Planning Fees and Procedures Bylaw No. 2457, 2015.

Local Government Act Section 464 (2):

A local government is not required to hold a Public Hearing on a proposed Zoning Bylaw if

- a) an official community plan is in effect for the area that is the subject of the zoning bylaw, and
- b) the bylaw is consistent with the official community plan.

3.3 Environmental Considerations

Interior health had no objections subject to a covenant being registered on title for the subject property to protect the backup area for the private wastewater disposal system.

A Watercourse Development Permit (WDP) application is required due to the proximity of the proposed development to a wetland feature associated with the Salmo River. The applicant has submitted a Riparian Assessment prepared by Masse Environmental in order to confirm that the proposed buildings are outside of the Development Permit Area (DPA). However, a WDP application will need to be considered and approved prior to any building permits being issued or further site alteration. Attachment 'B': Site Plan shows the extent of the property that is within the Development Permit Area. The Riparian Assessment prepared by Masse Environmental is also included as Attachment 'C'.

3.4 Social Considerations:

A written notice of the proposed bylaw amendment was mailed to five (5) neighbouring property owners. As of the writing of this report, no responses have been received from neighbouring property owners.

3.5 Economic Considerations:

None anticipated.

3.6 Communication Considerations:

The application was sent to five neighbouring property owners, relevant government agencies and First Nations.

The following responses were received from government agencies and First Nations:

RDCK Building Department

My initial review of the site plan shows a number of cabins and a Main Hall. The Main Hall is considered an A-2 Assembly Occupancy which falls into Part 3 of the Current BC Building code. An Architectural will be required for this structure. The Plans submitted are lacking a number of details to ensure certain life safety and spatial separation requirements. The following items are what I see as missing information that we would require to confirm compliance with the Current BC Building code.

- 1) Spatial Separation, Note limiting distance to be halved as per 9.10.14.3 below.
- 2) Fire Department Access
- 3) Water Supply for the Part 3 Building as well as for fire suppression.

The Fire department response time will affect this property as well.

As per:

9.10.14.3.	Limiting Distance and Fire Department Response
1) Except for the purpose of applying Sentences 9.10.14.4.(2), (3), (8) and (9), and Sentences 9.10.14. and (13), a <i>limiting distance</i> equal to half the actual <i>limiting distance</i> shall be used as input to the requirements of Subsection, where	
	a) the time from receipt of notification of a fire by the fire department until the first fire department vehicle arrives at the <i>building</i> exceeds 10 min in 10% or more of all calls to the <i>building</i> , and
	b) any storey in the building is not sprinklered.

Electoral Area 'G' Advisory Planning and Heritage Commission (APHC) Response

From the approved minutes of the meeting held on July 11, 2023:

That the Area G Advisory Planning Commission SUPPORT the Zoning Amendment Application Z2304G to Rumbling Creek Resort for the property located at 4626 Highway 6, Hall Siding, and legally described as LOT 1 DISTRICT LOT 1241 KOOTENAY DISTRICT PLAN EPP121813.

Interior Health Authority

From a planning perspective I recognize that the proposed new site specific tourist commercial zone has similar intentions as the existing tourist commercial zone. Ideally density (amount of sewage produced) in rural areas should be less; hence the minimum parcel size in the existing zone. Minimum parcel sizes are useful when onsite servicing has not been assessed in detail. At the very minimum each parcel should have a back-up area identified

to use as a future onsite sewerage dispersal area, and ideally this area should be protected with covenant to protect it from being used for any purpose that could impede its use as a dispersal field in the future.

The proposed layout provided by the sewerage engineer includes a back-up area. Consideration for cumulative impact from multiple onsite sewerage systems in a neighbourhood does not appear to apply in this scenario because there appears to be little development on neighbouring parcels. As such, I cannot put forth any objections to rezoning the parcel from Tourist Commercial to Tourist Commercial Site Specific. However, I recommend the back-up dispersal area be protected by a covenant.

Apart from commenting about the proposed re-zoning, I noted the development proposes a well water source, kitchen, coffee shop, wedding venue and a sauna with cold plunge pool. Please inform the applicant/property owner (and building inspector, if it applies) that construction and operating permits are required prior to constructing and operating any:

- Drinking water system
- Food service establishment (coffee shop & wedding venue)
- Pool (cold plunge pool)

Construction permits, particularly water system and pool permits, can take considerable time to process. I suggest they contact the local Environmental Public Health program as soon as possible, if they haven't already at Nelson Environmental Health Office at 250-505-7200 option 3 (main). More information can be found on the following webpages:

- Drinking Water Providers & Operators
- Food Premises
- Rec. Water Permits/Resources.

Also note, an Authorized Person with Professional designation is required to submit the Record of Sewerage System because of the food establishment use.

Front Counter BC

No apparent concerns from a Crown Land authorizations perspective on this application.

Fortis BC

Land Rights Comments

Based on the plans submitted, it is unclear whether adequate space has been provided to accommodate the transformation required to service the proposed development.

Operational & Design Comments

• There are FortisBC Electric ("FBC(E)")) primary distribution and transmission facilities along Highway 6.

• To date, arrangements have not been made to initiate the design process and complete the servicing requirements.

• All costs and land right requirements associated with changes to the existing servicing are the responsibility of the applicant.

• The applicant and/or property owner are responsible for maintaining safe limits of approach around all existing electrical facilities within and outside the property boundaries.

• To proceed, the applicant should contact an FBC(E) designer as noted below for more details regarding design, servicing solutions, and land right requirements.

In order to initiate the design process, the customer must call 1-866-4FORTIS (1-866-436-7847). Please have the following information available in order for FBC(E) to set up the file when you call.

Electrician's Name and Phone number FortisBC Total Connected Load Form Other technical information relative to electrical servicing

For more information, please refer to FBC(E)'s overhead and underground design requirements:

FortisBC Overhead Design Requirements http://fortisbc.com/ServiceMeterGuide

FortisBC Underground Design Specification http://www.fortisbc.com/InstallGuide

BC Hydro

BC Hydro has no objection in principle to the rezoning application as BC Hydro's work do not physically cross the property nor is there a Right of Way Agreement registered on Title.

1. For new construction, BC Hydro wishes to ensure that building permits do not get issued that allow for encroachment of buildings into the safety clearance zones required around existing bare utility conductors, including those utility works installed within road allowance adjacent to the property

2. It is the responsibility of the Architect and Electrical Engineer of Record (EEOR) to ensure compliance with the Canadian Electrical Code (CEC), Canadian Safety Association (CSA) and WorkSafe BC (WSBC). The CEC, CSA and WSBC stipulate minimum clearances of powerlines and equipment from buildings for safety and safe working clearances (Limits of Approach).

3. If the Developer or Property Owner requires any additional electrical connections, or wishes to relocate any existing powerlines or equipment, please call BC Hydro's Electric Service Coordination Centre at 1-877-520-1355 and ask to speak to a Distribution Designer.

Ministry of Forests

The Kootenay-Boundary Ecosystems Section of the Ministry of Water, Land and Resource Stewardship has received your referral request. We are currently unable to provide a detailed review of the referral but provide the following standard requirements, recommendations and/or comments:

1. All activities are to follow and comply with all higher-level plans, planning initiatives, agreements, Memorandums of Understanding, etc. that local governments are parties to.

2. Changes in and about a "stream" [as defined in the Water Sustainability Act (WSA)] must only be done under a license, use approval or change approval; or be in compliance with an order, or in accordance with Part 3 of the Water Sustainability Regulation. Authorized changes must also be compliant with the Kootenay-Boundary Terms and Conditions and Timing Windows documents. Applications to conduct works in and about streams can be submitted through FrontCounter BC. 3. No "development" should occur within 15 m of the "stream boundary" of any "stream" [all as defined in the Riparian Areas Protection Regulation (RAPR)] in the absence of an acceptable assessment, completed by a Qualified Professional (QP), to determine if a reduced riparian setback would adversely affect the natural features, functions and conditions of the stream. Submit the QP assessment to the appropriate Ministry of Water, Land and Resource Stewardship office for potential review. Local governments listed in Section 2(1) of RAPR are required to ensure that all development is compliant with RAPR.

4. The federal Species at Risk Act (SARA) protects Endangered, Extirpated or Threatened species listed under Schedule 1 of SARA. Developers are responsible to ensure that no species or ecosystems at risk (SEAR), or Critical Habitat for Federally listed species, are adversely affected by the proposed activities. The BC Species and Ecosystem Explorer website provides information on known SEAR occurrences within BC, although the absence of an observation record does not confirm that a species is not present. Detailed site-specific assessments and field surveys should be conducted by a QP according to Resource Inventory Standard Committee (RISC) standards to ensure all SEAR have been identified and that developments are consistent with any species or ecosystem specific Recovery Strategy or Management Plan documents, and to ensure proposed activities will not adversely affect SEAR or their Critical Habitat for Federally-listed Species at Risk (Posted).

5. Development specific Best Management Practices (BMPs) should be applied to help meet necessary legislation, regulations, and policies. Current BC BMPs can be found at: Natural Resource Best Management Practices - Province of British Columbia (gov.bc.ca) and Develop with Care 2014 - Province of British Columbia.

6. Vegetation clearing, if required, should adhere to the least risk timing windows for nesting birds (i.e., development activities should only occur during the least risk timing window). Nesting birds and some nests are protected by Section 34 of the provincial Wildlife Act and the federal Migratory Birds Convention Act. Guidelines to avoid harm to migratory birds can be found at: Guidelines to avoid harm to migratory birds - Canada.ca. If vegetation clearing is required during the bird nesting period (i.e., outside of the least risk timing window) a pre-clearing bird nest survey should be completed by a QP. The following least risk windows for birds are designed to avoid the bird nesting period:

Bird Species Least Risk Timing Windows Raptors (eagles, hawks, falcons, & owls) Aug 15 – Jan 30 Herons Aug 15 – Jan 30 Other Birds Aug 1 – March 31 7. The introduction and spread of invasive species is a concern with all developments. The provincial Weed Control Act requires that an occupier must control noxious weeds growing or located on land and premises, and on any other property located on land and premises, occupied by that person. Information on invasive species can be found at: Invasive species - Province of British Columbia. The Invasive Species Council of BC provides BMPs that should be followed, along with factsheets, reports, field guides, and other useful references. For example, all equipment, including personal equipment such as footwear, should be inspected prior to arrival at the site and prior to each daily use and any vegetative materials removed and disposed of accordingly. If noxious weeds are established as a result of this project or approval, it is the tenure holder's responsibility to manage the site to the extent that the invasive, or noxious plants are contained or removed.

8. Section 33.1 of the provincial Wildlife Act prohibits feeding or attracting dangerous wildlife. Measures should be employed to reduce dangerous human-wildlife conflicts. Any food, garbage or organic waste that could attract bears or other dangerous wildlife should be removed from the work area. If this is not feasible and waste is not removed, it should be stored in a bear-proof container to avoid drawing wildlife into the area and increasing the threat of human/wildlife conflict.

9. If this referral is in relation to a potential environmental violation it should be reported online at Report All Poachers & Polluters (RAPP) or by phone at 1-877-952-RAPP (7277).

10. Developments must be compliant with all other applicable statutes, bylaws, and regulations.

If the references above do not address your concerns, please do not hesitate to reach out to me for further investigation into your concerns.

Ministry of Transportation and Infrastructure

Thank you for the opportunity to provide comments for the proposed bylaw amendment. The ministry will require an access permit to Highway 6 for a multi-residential access. Site lines from the south may make the access difficult for travelling north or entering the site in the northbound lane. Restrictions may be imposed on the access if a design is not able to show adequate, safe site lines entering and exiting the site.

Ktunaxa Nation Council

This project footprint is entirely within a known high potential archaeological overview assessment (AOA) polygon. This project will require an arch assessment before any ground altering activity. Please contact a local archaeological consultant for more information on how to proceed with the project construction.

Staff Note: The comments from Ktunaxa Nation Council (KNC) were forwarded to the applicant who subsequently hired a professional Archaeologist to complete an Archaeological Overview Assessment/Preliminary Field Reconnaissance Survey. KNC has confirmed that the assessment completed by the Archaeologist addresses their original concerns.

3.7 Staffing/Departmental Workplace Considerations:

Should the Board choose to give the amending bylaw First and Second reading staff and resolve to waive a Public Hearing, staff will provide notice that the Public Hearing is being waived in accordance with Section 467 of the Local Government Act.

3.8 Board Strategic Plan/Priorities Considerations:

Not applicable

SECTION 4: OPTIONS

Planning Discussion

This section focuses on the suitability of this development on this site, with particular attention to the relevant policies in the OCP portion of Electoral Area 'G' Land Use Bylaw No. 2452, which are listed below:

OCP Section	OCP Policy	Staff Comment
4.8	Anticipates that tourist commercial needs will be accommodated throughout the Plan area on lands designated as such on Schedule A.1 mapping.	With the subject property being designated Tourist Commercial (TC) the OCP anticipates that the future use of this land would be a use consistent with the Tourist Commercial section of the OCP and associated C2 zone.
4.9	Encourages the development of a range of tourist accommodation types including campgrounds, lodges, resorts, and bed and breakfast establishments to diversify tourism opportunities in the community.	By designating the subject property TC, the policy direction is to encourage the types of uses that are being proposed through this proposed Bylaw Amendment Application in order to diversify tourism opportunities in the community.
4.10	Enable commercial outdoor recreation, resort commercial, agri-tourism and ecotourism opportunities such as trail rides, campgrounds and wilderness tours provided they do not have demonstrated detrimental impact on important habitat, riparian areas, or adjacent land uses.	This policy supports "resort commercial" among other uses provided they do not have a negative impact on important habitat, riparian areas, or adjacent land uses. A Watercourse Development Permit Application is required in order to facilitate the proposed development being considered by this proposed zoning bylaw amendment and will be accompanied by Riparian Assessment Report that will assess the impact to any adjacent natural features and ecosystem functions.

The ability to service this development that contemplates a density of units far greater than the existing Tourist Commercial zone is a key consideration. In evaluating that suitability, the applicant has provided an "Initial Septic Investigation" prepared by Highland Consulting Ltd. that confirms a suitable location for the initial septic field and a reserve field. The new zone was drafted so that the uses that were considered in the Initial Septic Investigation would be permitted.. In addition to the septic investigation a well has also been drilled on the subject property. Further assurance that the development can be adequately serviced may be added as conditions of adoption of the zoning, with, for example, the applicant providing construction and operating permits for the proposed drinking water and wastewater systems. As noted previously in this report, a public hearing for a proposed zoning bylaw amendment may be waived by the Board of Directors when the proposed zoning bylaw amendment is consistent with the applicable Official Community Plan. Staff recommend that a public hearing for this application be waived for the following reasons:

- The proposal is consistent with the applicable policies in the Official Community Plan;
- There have been no responses or opposition from neighbouring property owners;
- At the meeting held on July 11, 2023, the Area 'G' APHC indicated that they support the proposed zoning bylaw amendment application; and
- The application is not introducing a new use, but rather only an increase in density for a use that already exists in the Tourist Commercial zone.

Next Steps

Should the Board support the Option 1 recommendation to give 1st and 2nd reading to the amending bylaw and waive the public hearing, Staff would provide notice of the public hearing being waived in accordance with the requirements of the Local Government Act. The bylaw would then be brought back to the Board of Directors for further consideration.

Option 1

That Electoral Area 'G' Land Use Amendment Bylaw No. 2935, 2024 being a bylaw to amend Electoral Area 'G' Land Use Bylaw No. 2452, 2018 is hereby given FIRST and SECOND reading by content.

And Further

That Staff be directed to provide notice that the public hearing is being waived in accordance with Sections 466 and 467 of the Local Government Act.

Option 2

That Electoral Area 'G' Land Use Amendment Bylaw No. 2935, 2024 being a bylaw to amend Electoral Area 'G' Land Use Bylaw No. 2452, 2018 is hereby given FIRST and SECOND reading by content.

And Further

That in accordance with Regional District of Central Kootenay Planning Procedures and Fees Bylaw No. 2457, 2015, Electoral Area 'G' Director Hans Cunningham is hereby delegated the authority to chair the Public Hearing on behalf of the Regional District Board.

Option 3

That no further action be taken with respect to Electoral Area 'G' Land Use Amendment Bylaw No. 2935, 2024 being a bylaw to amend Electoral Area 'G' Land Use Bylaw No. 2452, 2018

That Electoral Area 'G' Land Use Amendment Bylaw No. 2935, 2024 being a bylaw to amend Electoral Area 'G' Land Use Bylaw No. 2452, 2018 is hereby given FIRST and SECOND reading by content.

And Further

That Staff be directed to provide notice that the public hearing is being waived in accordance with Sections 466 and 467 of the Local Government Act.

Respectfully submitted,

Zachari Giacomazzo, Planner

CONCURRENCE

Planning Manager – Nelson Wight Digitally approved Manager of Development and Community Sustainability – Sangita Sudan Digitally approved Chief Administrative Officer – Stuart Horn Digitally approved

ATTACHMENTS:

Attachment 'A' – Draft Amending Bylaw No. 2943, 2024 Attachment 'B' – Site Plan prepared by BLA Design Group, dated December 7, 2023 Attachment 'C' – Riparian Assessment prepared by Masse Environmental, dated August 10, 2023

REGIONAL DISTRICT OF CENTRAL KOOTENAY

Bylaw No. 2943, 2024

A Bylaw to amend Electoral Area 'G' Land Use Bylaw No. 2452, 2018

WHEREAS it is deemed expedient to amend the Electoral Area 'G' Land Use Bylaw No. 2452, 2018, and amendments thereto.

NOW THEREFORE the Board of the Regional District of Central Kootenay, in open meeting assembled, HEREBY ENACTS as follows:

APPLICATION

- 1 That Schedule 'B.1' of Electoral Area 'G' Land Use Bylaw No. 2452, 2018 be amended by changing the Zoning from Tourist Commercial (C2) to Rumbling Creek Tourist Commercial (C3) for LOT 1 DISTRICT LOT 1241 KOOTENAY DISTRICT PLAN EPP121813 (PID: 031-873-529), as shown on Schedule 'A' which is attached hereto and forms part of this bylaw:
 - a. ADDING the following:

25.B.0 RUMBLING CREEK TOURIST COMMERCIAL (C3)

PERI	MITTED USES TABLE FOR C3 ZONE
1	Principal Uses
	Artisan Craft Production and Sales
	Breweries and Distilleries
	Dwellings, Multi-Family
	Tourist Accommodation
	Interpretive Facilities
	Mixed Use Development
	Museum
	Outdoor Recreational Activities
	Resort
	Vacation Rental
	Accessory Uses to 'Tourist Accommodation' and 'Campgrounds'
	Laundromat
	Liquor Store
	Personal Service Establishment
	Retail Store
	Accessory Uses
	Accessory Building or Structures
	Accessory Dwelling

Campground
Eating and Drinking Establishment

DEVEL	OPMENT REGULATIONS TABLE FOR C3 ZONE	
	Minimum lot area for each Principal Use:	
	Community Water System and Community	
	Wastewater System	
	Tourist Accommodation, Resort	
	First sleeping room	0.2 hectares
	Each additional sleeping room	200 square metres
	Other permitted uses	0.2 hectares
	Community Water System and On-site Wastewater	
	Disposal or Individual Water Source and	
	Community Wastewater System	
	Tourist Accommodation, Resort	
	First sleeping room	0.4 hectares
	Each additional sleeping room	400 square metres
	Other permitted uses	0.4 hectares
	On-site Water Source and On-site Wastewater	
	Disposal	
	Tourist Accommodation, Resort	
	First sleeping room	0.5 hectare
	Each additional sleeping room	450 square metres
	Other permitted uses	1.0 hectares
2	Maximum number of Cabins	8
3	Minimum front setback	4.5 metres
4	Minimum exterior side setback	4.5 metres
5	Minimum interior side setback	2.5 metres
6	Minimum rear setback	2.5 metres
7	Maximum Lot Coverage	50 percent
8	Maximum building height:	
	Main Hall Building	10.0 metres
	Cabins	7.0 metres
	Accessory buildings and structures	6.0 metres
9	Maximum building footprint for a 1 bedroom Cabin	87 square metres
	Maximum building footprint for a 2 Bedroom Cabin	112 square metres
10	Minimum lot area for subdivision:	
10	Community Water System and Community	0.1 hectares
	Wastewater System	
	Community Water System and On-site Wastewater	0.2 hectares
	Disposal	0.2 hectares

Individual Water Source and Community	
Wastewater System	1.0 hectares
Individual Water Source and On-site Wastewater	
Disposal	

2 This Bylaw shall come into force and effect upon its adoption.

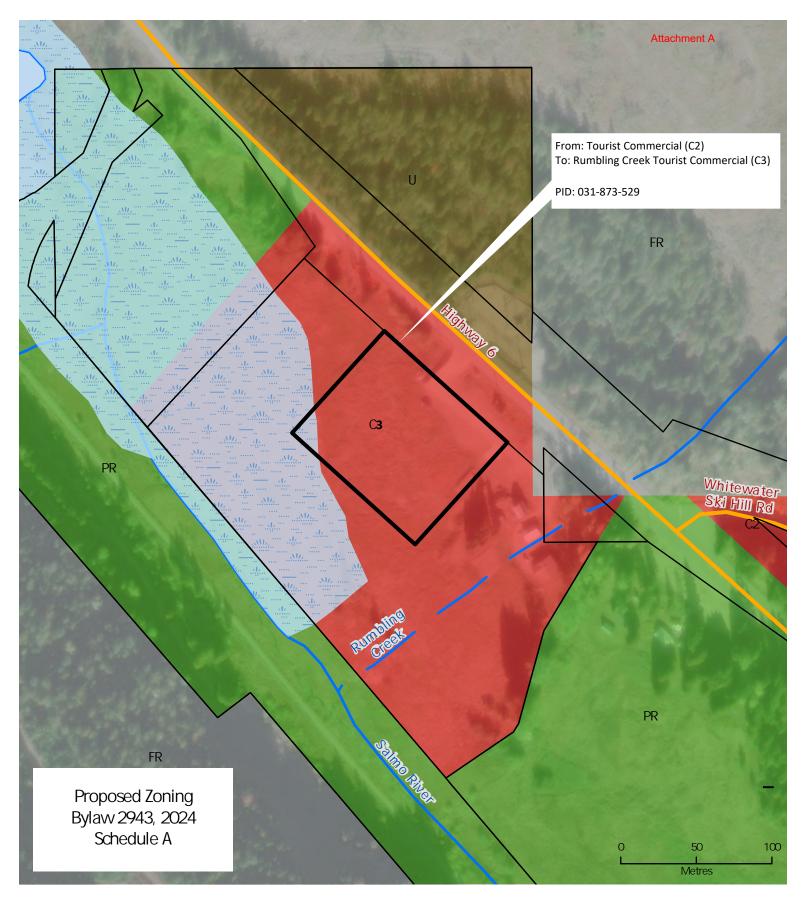
CITATION

3 This Bylaw may be cited as "Electoral Area 'G' Land Use Amendment Bylaw No. 2943, 2024"

READ A FIRST TIME this	15 th	day of	February,	2024.	
READ A SECOND TIME this	15 th	day of	February,	2024.	
WHEREAS A PUBLIC HEARING was held this [Date] day of [Month], 202					
READ A THIRD TIME this	[Date]	day of	[Month] ,	2024.	
APPROVED under Section 52 (3)(a) of the Transportation Act this [Date] day of [Month] , 20XX.					
Approval Authority,					
Ministry of Transportation and Infrastructure					
ADOPTED this	ХХ	day of	XX, 202X.		

Aimee Watson, Board Chair

Mike Morrison, Corporate Officer





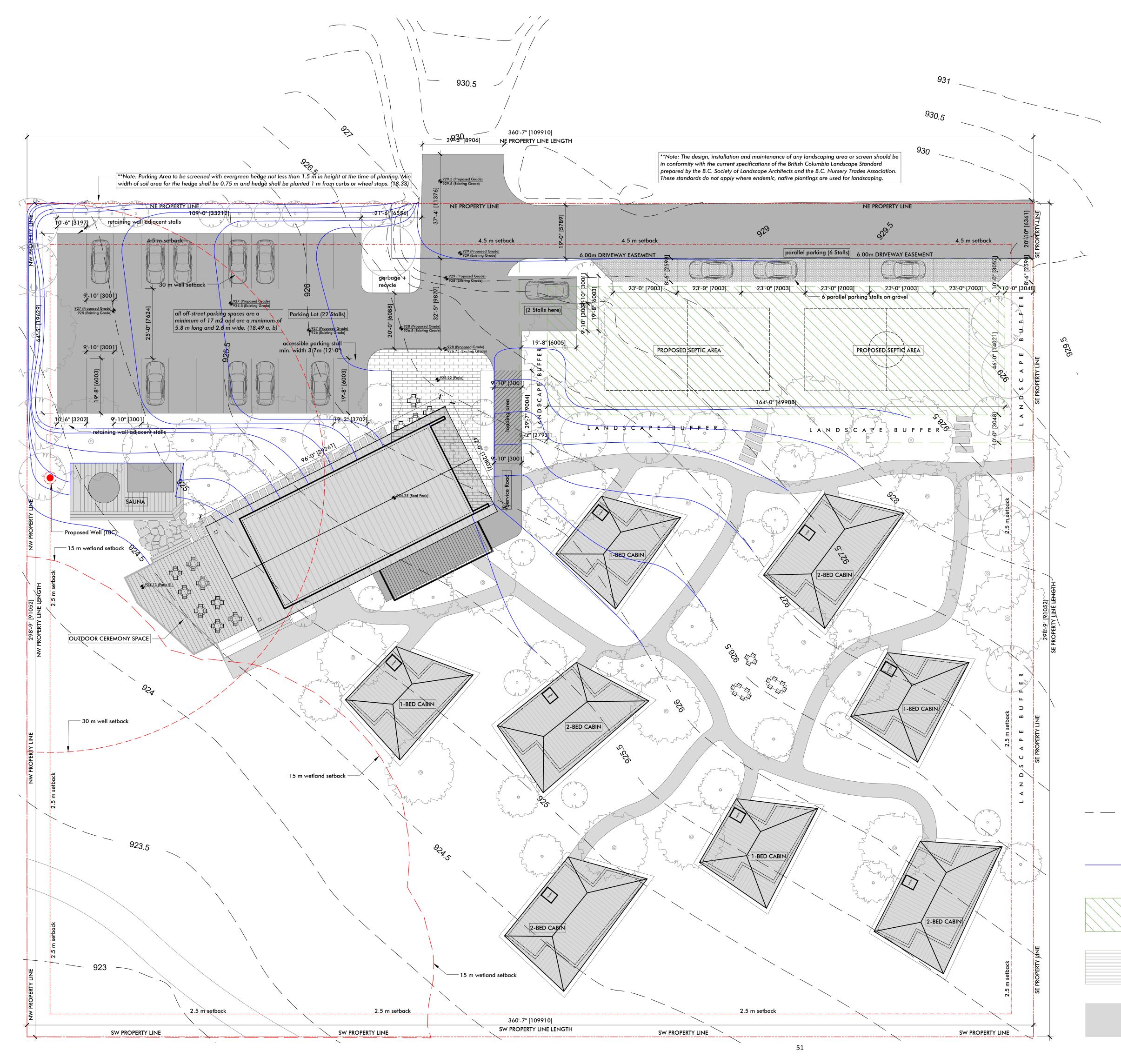


Zoning Class



Scale: 1:2,500 Plot ed: Monday, December 18, 2023 Datum/Project on: NAD83/UTM Zone11N

The map data shown are approximate representat ons for reference purposes only. The Regional District of Central Kootenay is not liable for any errors or omissions on this map nor any loss or damage result ng from the use of this map.



ATTACHMENT 'B' PAGE 1 OF 1



BLA Design Group 101-8889 Laurel Street Vancouver, BC, V6P3V9 t: 778-318-9958

Copyright Reserved: This plan and design are and at all times remain the exclusive property of BLA Design Group and may not be used or reproduced without their written consent.

Notes: Drawings are to be read in conjunction with each other. Any discrepancies on the drawings are to be reported to the designer before initiating work, purchase of products and/or manufacturing for construction or installation.

This is a conceptual design package, and it is subject to change during the building permit and construction stages of this project.

Issues 230424 Issued for RZ/DP

Revisions 230724 Revision to Include Wetland Setback 230831 Revision for Increased Setback

231207 Revision for RZ/DP comments

Rumbling Creek Cabins

Project Address
Nelson, BC

Drawing Scale 1/16 " = 1'- 0"

Drawing Title
Site Plan

A102

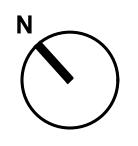
Existing Grade Contours

Proposed Grade Contours



Elevated Deck

Gravel or Paved Surfaces





4626 Highway 6

Riparian Assessment



Prepared for: **Regional District of Central Kootenay** 202 Lakeside Drive Nelson, BC, V1L 5R4

August 10, 2023

Prepared by: Masse Environmental Consultants 812 Vernon Street Nelson, BC, V1L 4G4

Project Number 2023-1031

i

TABLE OF CONTENTS

Table of Contents	i
List of Tables	ii
List of Appendices	ii
1 Introduction	1
2 Project Overview	2
2.1 Site Location	2
2.2 Existing Site Conditions	2
2.2.1 Watercourses	3
2.2.1.1 Wetland Complex	3
2.2.1.2 Salmo River	4
2.2.1.3 Rumbling Creek	4
2.2.2 Existing Development	5
2.3 Services	6
2.4 Proposed Development	6
3 Regulatory Overview	6
4 Environmental Resources	7
4.1 Aquatic Resources	7
4.1.1 Wetland	7
4.1.2 Surface Water	8
4.2 Vegetation	
4.3 Wildlife	
4.3.1 Mammals	12
4.3.2 Reptiles and Amphibians	
4.3.3 Birds	
4.4 Species at Risk	13
5 Impact Assessment	14
6 Measures to Protect the Integrity of the SPEA	14
6.1 Danger Trees	14
6.2 Windthrow	14
6.3 Slope Stability	15
6.4 Protection of Trees and Vegetation in the SPEA	15
6.5 Encroachment	15



ATTACHMENT 'C' PAGE 4 OF 46

4626 Highway 6 – Riparian Assessment

	6.6	Sediment and Erosion Control	. 15
	6.7	Stormwater Management	. 16
	6.8	Floodplain Concerns	. 16
	6.9	Protection of Wildlife Habitat	.16
	6.10	Invasive Plant Management	. 17
7	Conc	lusion	. 17
8	Closure		. 17
9	References		

LIST OF TABLES

Table 1. Results of detailed RAPR assessment for the wetland	7
Table 3. Plant species encountered on the property	11
Table 2. Species at risk with potential occurrence based on iMap BC 10 km radius query.	13

LIST OF APPENDICES

Appendix 1. Site Location Map Appendix 2. Conceptual Design Plans and SPEA Setback Appendix 3. SPEA Setbacks Appendix 4. Archaeological Chance Find Procedure



1 INTRODUCTION

Masse Environmental Consultants Ltd. was retained by Jason Newton and Joel Bot, Rumbling Creek Resort Development, to conduct a riparian assessment to accompany an application for a Watercourse Development Permit (WDP) at 4626 Highway 6 (PID 031-873-529, LOT 1 PLAN EPP121813 DISTRICT LOT 1241 KOOTENAY LAND DISTRICT). The Owner proposes to develop the property. The proposed development is located within the wetland riparian area, triggering a Watercourse Development Permit (WDP).

An initial site visit was completed on May 10, 2023, by Sylvie Masse R.P.Bio., and Chanel Gagnon, B.Sc., B.I.T, and a follow up site visit was completed on June 8, 2023, by Chanel Gagnon, B.Sc., B.I.T, and Lisa Pavelich P.Ag. The riparian assessment evaluates the existing conditions of the riparian area of the wetland, identifies habitat values, assesses potential environmental impacts, and recommends measures to mitigate or compensate for the alteration of the riparian area to maintain environmental values. It is based on the following regulatory framework and best management practices documents:

- RDCK Electoral Area 'G' Rural Official Community Plan Bylaw No. 2452, 2018
- British Columbia Riparian Areas Regulation
- British Columbia Water Sustainability Act
- British Columbia Wildlife Act
- Federal Fisheries Act
- Federal Migratory Birds Convention Act
- Requirements and Best Management Practices for Making Changes In and About A Stream in British Columbia
- Develop with Care. Environmental Guidelines for Urban and Rural Land Development in British Columbia
- General BMPs and Standard Project Considerations (Ministry of Environment)
- On the Living Edge: Your Handbook for Waterfront Living
- British Columbia Firesmart Homeowners Manual
- Riparian Factsheet No. 6 Riparian Plant Acquisition and Planting
- A Homeowner's Guide to Stormwater Management



This report has been prepared by Chanel Gagnon, B.Sc., B.I.T., and reviewed by Sylvie Masse R.P.Bio. I, Sylvie Masse, hereby certify that:

- a) I am a qualified environmental professional, as defined in the Riparian Areas Regulation made under the Fish Protection Act;
- b) I am qualified to carry out this part of the assessment of the development proposal made by the developer;
- c) I have carried out my assessment of the development proposal, and my assessment is set out in this Assessment Report; and
- d) In carrying out my assessment of the development proposal, I have followed the assessment methods set out in the Schedule to the Riparian Areas Regulation.

2 PROJECT OVERVIEW

2.1 Site Location

The subject property is located ~12 km southeast of Nelson, BC, just north of Whitewater Ski Hill Road and next to the Apex cross country skiing area (see Appendix 1 for Location Map). The property is ~2.47 acres (~1 ha) in size and is bordered by private properties on all sides, except for the northeast side that is bordered by Highway 6.

The project area is within the Interior Cedar-Hemlock dry warm variant 1 (ICHdw1) biogeoclimatic subzone, which occurs at valley bottom elevations around most of Kootenay Lake (MacKillop and Ehman 2016). The ICHdw1 subzone is characterized by moist, warm springs, hot and dry summers and mild, dry winters with moderately shallow snowpack. Winter rain-on-snow events are frequent and snow-free areas are common, particularly on warm-aspect sites. The ICHdw1 is a highly productive biogeoclimatic unit. Common species include interior Douglas fir (*Pseudotsuga menziesii*), western redcedar (*Thuja plicata*), western larch (*Larix occidentalis*), lodgepole pine (*Pinus contorta*), paper birch (*Betula papyrifera*), ponderosa pine (*Pinus ponderosa*), black huckleberry (*Gaylussacia baccata*), falsebox (*Paxistima myrsinites*), prince's pine (*Chimaphila umbellate*), queen's cup (Clintonia uniflora), twinflower (*Linnaea borealis*), and pipecleaner moss (*Robust rhytidiopsis*) (MacKillop and Ehman 2016).

2.2 Existing Site Conditions

The property is generally flat and gently sloping towards the Salmo River (southwest aspect), with an elevation ranging between 930 m - 935 m. The property is situated in the valley bottom between the Bonnington and Nelson Mountain Ranges, next to an extensive wetland complex to the west. Nearby watercourses include the Salmo River to the west of the wetland and Rumbling Creek to the southeast of the neighbouring property. The property has been disturbed by historical land clearing activities for



agricultural and human use, as evidenced by the presence of various exotic plants, mainly reed canary grass (*Phalaris arundinacea*), and the absence of tree and shrub cover (Photo 1). The property has been influenced by Rumbling Creek which has created an alluvial fan where material from the stream has deposited over time and has created an elevated bench next to the wetland. This bench was likely used for agricultural purposes and constitutes the disturbed area (~1.9 acres or 77% of the total property). Native vegetation is present on the boundary of the wetland and the toe of the disturbed bench.

2.2.1 Watercourses

Three watercourses are within or near the property, including a wetland complex, the Salmo River and Rumbling Creek. In addition to the defined watercourses, there is extensive seepage throughout the northwest portion of the property. This was evident during the May 10th site visit. The water is conveyed through a highway culvert northeast of the property. The water originates from Rumbling Creek and the east highway ditch. The surface runoff is not a defined stream channel since it does not have a well-defined bank and stream bed and flows less than six months of the year. Therefore, it does not meet the definition of a watercourse under the watercourse development permit (RDCK 2013). However, it meets the definition of a stream under the *Water Sustainability Act* (WSA). Refer to Section 4.1.2. for more detail.

"Watercourse" means any natural or man-made depression with well-defined banks and a bed 0.6 metres (2.0 feet) or more below the surrounding land serving to give direction to a current of water at least six months of the year and/or having a drainage area of two square kilometers (0.8 square miles) or more upstream of the point of consideration (RDCK 2013)."

"**stream**" under WSA means

- (a) a natural watercourse, including a natural glacier course, or a natural body of water, whether
- or not the stream channel of the stream has been modified, or
- (b) a natural source of water supply,

including, without limitation, a lake, pond, river, creek, spring, ravine, gulch, wetland or glacier, whether or not usually containing water, including ice, but does not include an aquifer.

2.2.1.1 Wetland Complex

The property is at the headwaters of the Salmo River watershed, which originates from the wetland complex present to the northwest (Photo 2). The wetland is the only defined watercourse that transects the subject property. The wetland complex is broadly classified as swamp (Ws) at the northwestern extent, shallow open water (Ww) and marsh (Wm).



ATTACHMENT 'C' PAGE 8 OF 46

4626 Highway 6 - Riparian Assessment

During the site visit, the visible high-water mark (HWM) of the wetland was determined based on the changes in vegetation structure, loss of obligate hydrophytes and absence of wetland soil characteristics and the definition of natural boundary. The natural boundary was flagged in the field and is shown on the SPEA map (Appendix 3). This natural boundary will be used as the HWM from which the streamside protection area setbacks will be determined as per the Riparian Area Protection Regulation (RAPR).

"**Natural Boundary**" means the visible high water mark of any lake, river, stream or other body of water is where the presence and action of the water are so common and usual, and so long continued in all ordinary years, as to mark on the soil of the bed of the body of water a character distinct from that of its banks, in vegetation, as well as in the nature of the soil itself (MOE 2016)."



Photo 1. Aerial view of the property, looking northeast (May 10, 2023).



Photo 2. Aerial view of the property and Salmo River headwaters (May 10, 2023).

2.2.1.2 Salmo River

The Salmo River is a tributary of the Pend d'Oreille River and flows in a north to south direction from its headwaters within the wetland complex, north of the property. The Salmo River is a 6th order stream with a mainstem length of ~61 km. The Salmo River supports several fish species including species of regional significance such as Bull Trout (*Salvelinus confluentus*; BC Blue-listed, SARA Special Concern), Kokanee (*Oncorhynchus nerka*), Rainbow Trout (*Oncorhynchus mykiss*) and Westslope Cuttroat Trout (*Oncorhynchus clarkii lewisi*; BC Blue-listed, SARA Special Concern).

2.2.1.3 Rumbling Creek

Rumbling Creek is a 1st order stream that flows from the western margin of the Nelson Range and drains into the Salmo River, ~50 m south of the property boundary, and has a mainstem length of ~3 km. Rumbling Creek has a cascade pool morphology with substrate consisting predominantly of boulder and



cobble with pockets of fines. The bankfull channel width at the highway crossing is ~3 m, with a gradient of ~7 %. No fisheries information was available for this stream and fish presence, or absence has not been confirmed (FISS 2023).

2.2.2 Existing Development

The property has historically experienced site disturbances from past settlements and land clearing/agriculture activities (Photo 3). There is currently no building infrastructure on the property. The vegetation appears to be largely recovering from past disturbances through a legacy of a mix of agronomic grasses, including reed canary grass, and exotic species remain on the disturbed bench, with some scattered native sedges and shrubs (Photo 4). Areas of native vegetation exist within the wetland on the northwest corner of the property. Access to the property is from Highway 6 (Photo 5). There are steep embankments (>60% slope) leading up to the property driveway that was constructed on imported fill to the height of the highway (Photo 6).



Photo 3. Photo taken from east corner, looking west (June 8, 2023).



Photo 4. Photo taken from southeast property boundary, looking northwest (June 8, 2023).





Photo 5. Access road to property, looking northwest (May 10, 2023).



Photo 6. Access road embankment, looking west (May 10, 2023).

2.3 Services

There are currently no services on the property. A septic field is proposed at the southeast corner of the property. A well is proposed along the northwest property line ~37 m west from the north corner property boundary pin (refer to Appendix 2).

2.4 Proposed Development

The proposed development is for a commercial tourism development, called Rumbling Creek Cabins, which is in the conceptual planning and design stage (Appendix 2).

- Gravel parking lot (~800 m²);
- Main hall building with raised social deck (~360 m²);
- Four 1-bedroom (~70 m²) and four 2-bedroom (~100 m²) cabins;
- Crushed gravel pathways (area unknown);
- Septic field (~1000 m²);
- Sauna and cold plunge with deck (~65 m²);
- Landscaping (area unknown; refer to Appendix 2 for planting plan).

3 REGULATORY OVERVIEW

To determine whether the 15 m WDP setback from the HWM of the wetland aligns with the Riparian Area Protection Regulation (RAPR) criteria, a detailed assessment of the subject property was conducted to calculate the Streamside Protection and Enhancement Area (SPEA) setbacks. Results for the Zones of Sensitivity (ZOS) and SPEA are presented in Table 1 and Appendix 3.



61

4626 Highway 6 - Riparian Assessment

As per the RAPR, the large woody debris (LWD) and litter ZOS were plotted 15 m inland from the HWM of the wetland with the shade ZOS plotted 0 - 11 m from the HWM. The SPEA setback is determined based on the ZOS with the greatest width. Therefore, within the subject property the SPEA from the HWM of the wetland is 15 m.

The BC Riparian Areas Protection Regulation (BC 2015) defines "High Water Mark" and "Stream" as follows:

"High Water Mark" means the visible high water mark of a stream where the presence and action of the water are so common and usual, and so long continued in all ordinary years, as to mark on the soil of the bed of the stream a character distinct from that of its banks, in vegetation, as well as in the nature of the soil itself, and includes the active floodplain."

Table 1. Results of detailed RAPR assessment for the wetland.

Feature Type	SPVT ¹	Zones of Sensitivity			SPEA ³
		LWD ²	Litter fall	Shade	
Wetland	TR	15 m	15 m	0 - 11 m	15 m

¹SPVT: site potential vegetation type (TR-tree)

² LWD- large woody debris

³ SPEA- streamside protection and enhancement area

4 ENVIRONMENTAL RESOURCES

4.1 Aquatic Resources

4.1.1 Wetland

The headwaters of the Salmo River originate from an important wetland complex totaling ~9.3 ha (Photo 7), which is a sensitive ecosystem with regional significance as an important wildlife corridor. The Salmo River becomes a defined channel ~600 m north of the property. Wetlands are water-saturated for much of the year, with vegetation adapted to live in resultant water-logged and low oxygen soils (Mackenzie and Moran 2004). The vegetation community and site conditions on the property are in transition due to hydrologic changes caused by historical land clearing and water diversion of the melt water from Highway 6 into a ditch at the northwest and southwest property boundary (Photo 8, Photo 9).





Photo 7. Aerial view of the property and wetland complex, looking south (Photo credit Jason Newton, fall 2021).



Photo 8. View of the disturbed area transitioning into the wetland, looking northwest (June 8, 2023).



Photo 9. View of the natural boundary between the disturbed bench and the wetland, looking southwest (June 8, 2023).

4.1.2 Surface Water

Water is conveyed onto the property from a 600 mm culvert under Highway 6 (Photo 10, Photo 11) and originates from the highway ditch and a diversion ditch that appeared to have been constructed to divert water from Rumbling Creek to the property, possibly for historic irrigation purposes (Photo 12). The water source on the property is likely a combination of rainwater, snow melt and water from Rumbling Creek, which flows from the south end of the FortisBC substation and likely goes subsurface (Photo 13). The water from the culvert flows along the northwestern property boundary and eventually runs into the wetland and connects to a channelized ditch (Photo 12, Photo 13). The channelized ditch begins at the northwest corner of the property and flows south through the wetlands towards Nelson Nordic Ski Club (Photo 16). Seepage areas were also noted throughout the northwestern half of the property (Photo 17; Appendix 3), where saturated soils were present due to the high water table at ~15 - 20 cm depth (Photo 18).



ATTACHMENT 'C' PAGE 13 OF 46

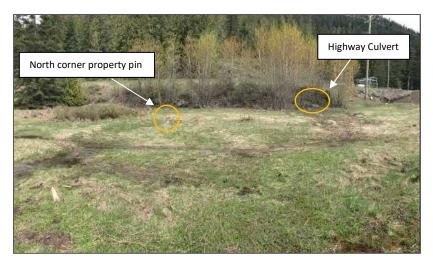


Photo 10. Location of highway culvert and north corner of the property (May 10, 2023).



Photo 11. Water flow from culvert underneath highway 6 (May 10, 2023).



Photo 13. Start of side channel from Rumbling Creek (June 8, 2023).



Photo 12. Ditch on the north side of Highway 6, supplying water to the property (May 10, 2023).



Photo 14. Surface water flow on northwest property boundary, from highway culvert (May 10, 2023).



ATTACHMENT 'C' PAGE 14 OF 46

4626 Highway 6 - Riparian Assessment



Photo 15. Surface water flowing west towards the wetland, along the northwest property boundary (May 10, 2023).



Photo 17. Surface water on the northwest half of the property (May 10, 2023).



Photo 16. Channelized ditch west of property (May 10, 2023).



Photo 18. Water table located in the 15 m setback (June 8, 2023).

4.2 Vegetation

The property has very little tree and shrub cover and is almost primarily low cover grasses, sedges, and herbaceous plants (Photo 21 – 24). The plant community on the disturbed bench is dominated by primarily non-native species, including canary reed grass, starry broomsedge (*Carex pachystachya*; native), Canada thistle (*Cirsium arvense*), stinging needle (*Urtica dioica ssp. dioica*), vetch (*Vicia sp.*), timothy grass (*Phleum pratense*), common tansy (*Tanacetum vulgare*), common burdock (*Arctium minus*), mullein (*Verbascum thapsus*), yarrow (*Achillea millefolium*; native), scouring rush (*Equisetum hyemale*; native), with a few black hawthorn (*Crataegus douglasii*; native) and thimbleberry (*Rubus parviflorus*; native) shrubs. The toe of the disturbed bench transitions to the wetland margins, which contains a variety of native species including arrowleaf senecio (*Senecio triangularis*), white bog orchid (*Platanthera dilatate*), Canada goldenrod (*Solidago canadensis*), large-leaved avens (*Geum macrophyllum*), swamp horsetail (*Equisetum fluviatile*), kentucky bluegrass (*Poa pratensis*), Columbian monkshood (*Aconitum columbianum*), false lily



ATTACHMENT 'C' PAGE 15 OF 46

4626 Highway 6 - Riparian Assessment

of the valley (*Maianthemum stellatum*) before transitioning into a water sedge (*Carex aqualtilis*) dominated wetland plant community. Table 2 provides a list of riparian vegetation species encountered on the property.



Photo 19. View of low cover vegetation and tree cover along the margins of the highway, looking northeast (June 8, 2023).



Photo 20. View of elevated bench transitioning to wetland, looking northwest (June 8, 2023).



Photo 21. View of upper property, looking northwest (June 8, 2023).



Photo 22. View of broomsedge (*Carex pachystachya*), which is one of the dominate species in the disturbed area (June 8, 2023).

Table 2. Plant sp	pecies encountered	on the property.
-------------------	--------------------	------------------

Common Name	Scientific Name	Common Name	Scientific Name
Trees		white Bog orchid	Platanthera dilatate
black hawthorn	Crataegus douglasii	wild strawberry	Fragaria virginiana
Shrubs		yarrow	Achillea millefolium
common snowberry	Symphoricarpos albus	Non-native and Invasiv	es
thimbleberry	Rubus parviflorus	burdock	Arctium lappa
Herbaceous		Canada thistle	Cirsium arvense



4626 Highway 6 - Riparian Assessment

Common Name	Scientific Name	Common Name	Scientific Name
arrowleaf senecio	Senecio triangularis	canary reed grass	Phalaris arundinacea
Canada goldenrod	Solidago canadensis	common dandelion	Taraxacum officinale
Columbian Monkshood	Aconitum columbianum	common tansy	Tanacetum vulgare
false lily of the valley	Maianthemum stellatum	hawkweed spp.	Hieracium spp.
large-leaved avens	Geum macrophyllum	knapweed	Centaurea spp.
kentucky bluegrass	Poa pratensis	meadow buttercup	Ranunculus acris
Oregon grape	Mahonia aquilfolium	mullein	Verbascum thapsus
scouring rush	Equisetum hyemale	stinging nettle	Urtica dioica ssp. Dioica
small-flowered bulrush	Scirpus microcarpus	smooth brome	Bromus inermis
starry broomsedge	Carex pachystachya	timothy grass	Phleum pratense
swamp horsetail	Equisetum fluviatile	vetch	Vicia sp.
water sedge	Carex aqualtilis		

4.3 Wildlife

4.3.1 Mammals

The unique wetland ecosystem complex provides a valuable wildlife corridor where good forage opportunities exist for many species. Large mammals that are known to use the area include grizzly bear (*Ursus arctos*), American black bear (*Ursus americanus*), deer (*Odocoileus spp.*), bobcat (*Lynx rufus*), cougar (*Puma concolor*), coyote (*Canis latrans*), elk (*Cervus elaphus*), moose (*Alces alces*), as well as a variety of small mammals including, snowshoe hare (*Lepus americanus*), Columbian ground squirrels (*Urocitellus columbianus*), mice, voles and bats. Columbian ground squirrels were observed on the property during both site visits, with several burrows throughout the elevated disturbed bench.

Grizzly bear (*Urus arctos*, BC Blue-listed, SARA Schedule 1-Special Concern) is a wide-ranging species that frequent the area, mainly in the spring. The wetland complex serves as a natural-movement corridor that enables grizzly bears to access other, more remote areas and low elevation forests and wetlands provide important spring forage. The area is within the South Selkirk Grizzly Bear Population Unit (ID:445), which is currently assessed as 'high' conservation concern with a 2018 population density of 14.3 bears/1000 km2 (Mowat et al. 2019).

4.3.2 Reptiles and Amphibians

Reptiles and amphibians found nearby include western skink (*Plestiodon skiltonianus*; BC Blue-listed; SARA Special Concern), western toad (*Anaxyrus boreas*; SARA Special Concern), northern rubber boa (*Charina bottae*; SARA Special Concern), pacific treefrog (*Pseudacris regilla*), garter snakes (*Thamnophis sp.*), Columbia spotted frog (*Rana luteiventris*, iMapBC 2023). Garter snakes are often found in wetlands and



riparian areas and have a high potential to occur. The wetland provides suitable habitat for several amphibians, including Columbia spotted frog, pacific treefrog and western toad.

4.3.3 Birds

Several bird species were observed during the site visit including American Pipits (*Anthus rubescens*), Bald Eagle (*Haliaeetus leucocephalus*), Cedar Waxwing (*Bombycilla cedrorum*), Lincoln Sparrow (*Melospiza lincolnii*), Pine Siskins (*Spinus pinus*), Red-winged Blackbird (*Agelaius phoeniceus*), Savannah Sparrow (*Passerculus sandwichensis*), Song Sparrow (*Melospiza melodia*), Violet-Green Swallows (*Tachycineta thalassina*), Warlbing Vireo (*Vireo gilvus*), Wilson's snipe (*Gallinago delicata*) and Yellow Warbler (*Setophaga petechia*).

4.4 Species at Risk

The BC Conservation Data Center (CDC) occurrence data and critical habitat for Federally listed species at risk were queried within iMap BC (BC 2023), using a 10 km buffer around the center point of the subject property. The query results are presented in Table 3. Four species at risk were identified within this buffer. In addition to these four species, grizzly bear, western skink and northern rubber boa have been confirmed in the area. Potential occurrence on the property was assessed as likely, possible, unlikely, or unknown, according to known species habitat affinities and the habitat profile of the property and in proximity to mapped occurrences.

Common Name (Scientific Name)	Likelihood of Occurrence on Subject Property	Comment	BC Conservation Status ¹	COSEWIC ^{2 /} SARA ²
Banded Tigersnail (Anguispira kochi)	Possible	CDC occurrence mapped ~ 3.5 km northwest of the subject property, at the north end of Cottonwood Lake. Occurs in moist deciduous/coniferous forests, near shores of lakes and streams (Shape ID: 121786, Occurrence ID: 15126).	Blue	NAR
Caribou (Southern Mountain Population) (Rangifer tarandus pop.1)	Unlikely	Critical habitat is mapped within the subject property (Critical Habitat ID: 21281, COSEWIC species ID: 638). Caribou are highly unlikely to be present given the small population and extensive habitat fragmentation.	Red	E
Grizzly Bear (<i>Urus</i> arctos)	Confirmed	Frequently observed roaming this area.	Blue	SC
Western Toad (<i>Anaxyrus boreas</i>)	Possible	Incidental observation by Fiona Lau ~850 m NE of the site within riparian area of Harrop Creek.	Yellow	SC
Whitebark pine (Pinus albicaulis)	Unlikely	CDC occurrence is mapped within ~5.5 km west of the subject property	Blue	E

Table 3. Species at risk with potential occurrence based on iMap BC 10 km radius query.



4626 Highway 6 - Riparian Assessment

Common Name (Scientific Name)	Likelihood of Occurrence on Subject Property	Comment	BC Conservation Status ¹	COSEWIC ^{2 /} SARA ²
		(Critical habitat ID: 140404, COSEWIC species ID: 1086). Habitat is subalpine and timberline zones, so it is not expected at the subject site.		

¹Red = Species that is at risk of being lost (extirpated, endangered, or threatened) within British Columbia. Blue = Species considered to be of special concern within British Columbia. ²(E)Endangered = Facing imminent extirpation or extinction. (T)Threatened = Likely to become endangered if nothing is done to reverse the factors leading to its extirpation or extinction. (SC)Special concern = May become a threatened or an endangered species because of a combination of biological characteristics and identified threats. Information sources: British Columbia Conservation Data Centre, and personal sightings.

5 ARCHAEOLOGICAL RESOURCES

The subject property is part of the traditional territory of the Sinixt, Okanagan and Ktunaxa First Nations and archaeological evidence is documented at multiple sites around this area. A review of archaeological resources on this property is outside the scope of this report. However, Archaeological Chance Find Procedures are provided in Appendix 4 for guidance on which protocols to follow in the event of a chance archaeological find, to ensure that archaeological sites are documented and protected as required for compliance with the BC Heritage Conservation Act.

6 IMPACT ASSESSMENT

The proposed cabin development will increase human presence in the area. The intensity of use (i.e., activity within the wetland) and the risk of human-wildlife conflicts has potential to increase. In order to mitigate these potential impacts, no development within the SPEA is recommended.

7 MEASURES TO PROTECT THE INTEGRITY OF THE SPEA

This section provides measures to protect the integrity of the SPEA as described in RAPR, as well as recommended best management practices.

7.1 Danger Trees

There are no trees within the property.

7.2 Windthrow

There are no trees within the property.



7.3 Slope Stability

No slope stability hazard indicators were observed during the site visit. Further assessment of geotechnical hazard is beyond the scope of this report, and any such assessment should be led by a P.Geo, or P.Eng.

7.4 Protection of Trees and Vegetation in the SPEA

There are no trees within the SPEA. Native vegetation within the SPEA should be maintained to preserve the natural functioning of the wetland.

• No landscaping within the SPEA.

7.5 Encroachment

Further encroachment within the SPEA of the wetland must be avoided to maintain the natural environment, its ecosystems (aquatic and riparian), and biological diversity. Any future development (i.e., recreation trails, landscaping, manicured lawn, amenities, and/or construction of any additional structures) proposed within the SPEA will require a RAPR assessment conducted by a QEP and an RDCK Watercourse Development Permit.

7.6 Sediment and Erosion Control

Erosion and sediment control measures shall be implemented during the construction site preparation and building development phases to reduce the risk of sediment input into the wetland.

At a minimum, these measures should include:

- Limit the disturbance of native vegetation to the extent possible and ensure disturbed/exposed soils are revegetated with vegetation as soon as possible.
- Control storm water surface runoff and direct it away from disturbed/exposed soils.
- Safely stockpile any erodible materials in a manner that eliminates the possibility of erosion and sediment transport. This may require covering the stockpiles with tarps or with a vegetative cover.
- The toe of the slope for the parking lot should be armoured to reduce erosion.

During construction, install mitigation measures such as ditching, sediment fences, detention/settling ponds, check dams, etc. as necessary to manage turbid wastewater generated by heavy rain events. Turbid wastewater will not be permitted to leave the construction site.



7.7 Stormwater Management

The proposed development will result in an increase in the total impervious area of the property. Storm water runoff from the property cannot increase peak flow of the wetland. The following mitigation measures will help decrease stormwater impacts:

- Promote the installation of permeable surfaces that permit rainwater infiltration into the ground to moderate the flow of overland storm water.
- Design roof rainwater collection systems that direct rainwater into suitable landscape features which can absorb and utilize runoff.
- Integrate groundwater recharge by using vegetated swales, infiltration basins and absorbent vegetation.
- Stormwater discharges must adhere to the *Water Sustainability Act* or any other application legislation.
- An application under the *Water sustainability Act* will need to be retained to divert the stream that flows through the property at the northwest corner.

7.8 Floodplain Concerns

There were no floodplain concerns observed on the subject property.

7.9 Protection of Wildlife Habitat

Wetland complexes allow wildlife to travel between habitat "islands" by providing migration corridors between upland areas and water, as well as along riparian corridors. They also help circulate nutrients between terrestrial and aquatic ecosystems. Wildlife concerns on the property include the population of Columbian ground squirrels and bears. The proposed development will result in an increase in human pressure in the area. Ongoing visitors have the potential to increase the intensity of use which can result in disturbance through creation of new trails, soil erosion and compaction, introduction and spread of invasive plants and disturbance and displacement of wildlife. The following mitigation measures are recommended:

- Implement Columbian ground squirrels' best management practices.
- Apply for wildlife permit and secure licensed trapper for removal of Columbian ground squirrels (Schedule B Species).
- Avoid development within the SPEA or sensitive ecosystems identified in this assessment.
- Install signage at the northwest and southwest property lines to restrict access into the wetland complex.



Collared bear data has shown the area from Cottonwood Lake to Hall Siding, particularly the areas
of Apex and Camp Busk, are heavily used by grizzly bears in the spring (RDCK 2022). This is a
sensitive time where bears use this area because of its high valued forage habitat. In most cases
the bears move on to higher elevations by the middle of June. Restricting access to the wetland
will help decrease the risk of human wildlife conflicts and ensure public safety and benefit the
local bear population from over exposure.

7.10 Invasive Plant Management

Construction activities can potentially increase prevalence of invasive plant species which can outcompete native riparian vegetation, causing damage to habitat and ecosystem function. The following mitigation measures are recommended to reduce the establishment and proliferation of invasive plant species on site:

- All equipment should be thoroughly washed and inspected before entering the project site to prevent the import of new invasive plant seeds and root fragments.
- The amount of soil disturbance should be minimized.
- Invasive plants shall be removed and disposed of at a licensed landfill facility.

8 CONCLUSION

Overall, the proposed development is outside the SPEA. Impacts to the SPEA will be minimal as long as there is no proposed development within the SPEA and best management practices recommended herein are adhered to.

9 CLOSURE

This report has been prepared by a Qualified Environmental Professional (QEP) who has not acted for, or as an agent(s) of the RDCK and was at the expense of the property owner.

I, <u>Sylvie Masse</u>, certify that I am qualified to carry out this assessment; and that the assessment methods under the Regulation have been followed; and that, in my professional opinion:



ATTACHMENT 'C' PAGE 22 OF 46

(i) if the development is implemented as proposed, or

(ii) if the streamside protection and enhancement areas identified in the report are protected from the development, and

(iii) if the developer implements the measures identified in the report to protect the integrity of those areas from the effects of the development,

then there will be no harmful alteration, disruption or destruction of natural features, functions and conditions that support fish life processes in the riparian assessment area.

If you have any comments or questions, please do not hesitate to contact the undersigned.

Sincerely,

Chanel Gagnon, B.Sc., B.I.T. chanel@masseenvironmental.com

Mane

Sylve Masse, MSc, RPBio Masse Environmental Consultants



10 REFERENCES

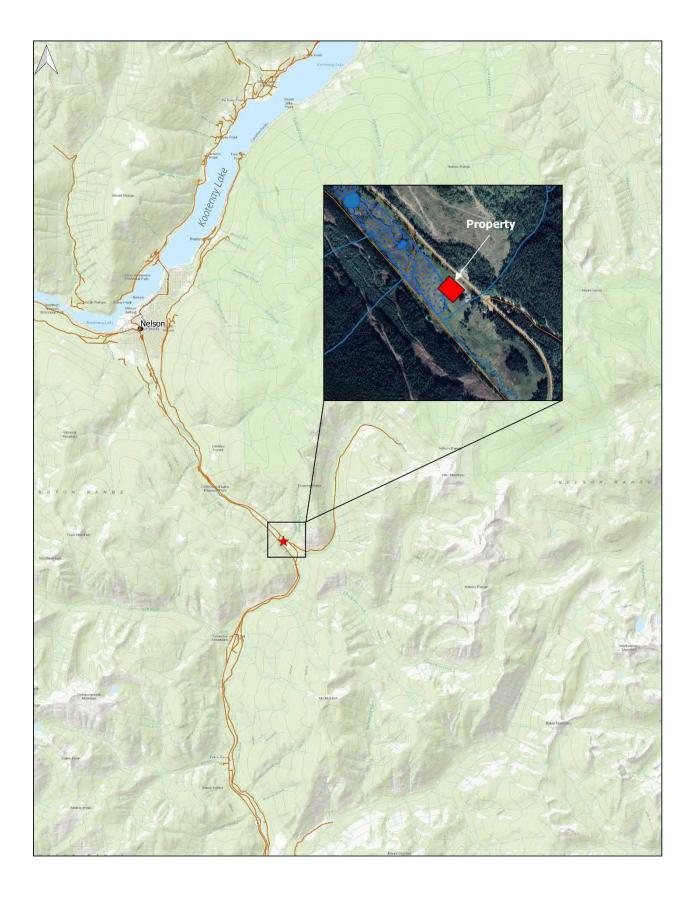
- [BC]. 2019. *Riparian Areas Protection Regulation*. B.C. Reg. 178/2019, Last amended February 5, 2021 by
 B.C. Reg. 11/2021. Victoria, British Columbia, Canada.
- [BC]. 2023. iMap BC Mapping Application. Available online at: https://www2.gov.bc.ca/gov/content/data/geographic-data-services/web-basedmapping/imapbc
- British Columbia FireSmart. N.D. FireSmart BC Homeowner's Manual. Available online at: https://firesmartbc.ca/wpcontent/uploads/2021/04/05.31.22.FireSmartBC_HomeownersManual_ Printable.pdf
- Gov BC. 2022. Requirements and Best Management Practices for Making Changes In and About a Stream in British Columbia, V. 2022.01. Government of British Columbia.
- Kipp, S. and Callaway, C. 2002. On the Living Edge. Your Handbook for Waterfront Living.
- [LTSA] Land Title and Survey Authority of British Columbia. 2023. ParcelMap BC Mapping Application. Available online at: https://ltsa.ca/products-services/parcelmap-bc/
- Mackillop, D. and Ehman, A. 2016. A Field Guide to Site Classification and Identification for Southeast British Columbia: the South-Central Columbia Mountains. Province of B.C., Victoria, B.C. Land Management Handbook 70.
- [MFLNRORD] BC Ministry of Forests, Lands, Natural Resource Operations and Rural Development. 2019. Riparian Areas Protection Regulation Technical Assessment Manual. V 1.1. November 2019.
- [MoE] BC Ministry of Environment. 2013. Guidelines for Raptor Conservation during Urban and Rural Land Development in British Columbia (2013). Province of British Columbia. Victoria, British Columbia, Canada.
- [MoE] BC Ministry of Environment. 2014. Develop with Care 2014. Environmental Guidelines for Urban and Rural Land Development in British Columbia. Province of British Columbia. Victoria, British Columbia, Canada.



- [MoE] BC Ministry of Environment. 2016. Best Management Practices and Guidelines for Bats in British Columbia. Province of British Columbia. Victoria, British Columbia, Canada.
- [MWLAP] BC Ministry of Water, Land and Air Protection. 2004. Standards and Best Practices for Instream Works. Province of British Columbia. Victoria, British Columbia, Canada.
- [RDCK]. 2018. Electoral Area 'G' Rural Official Community Plan Bylaw No. 2452, 2018.



APPENDIX 1. SITE LOCATION MAP



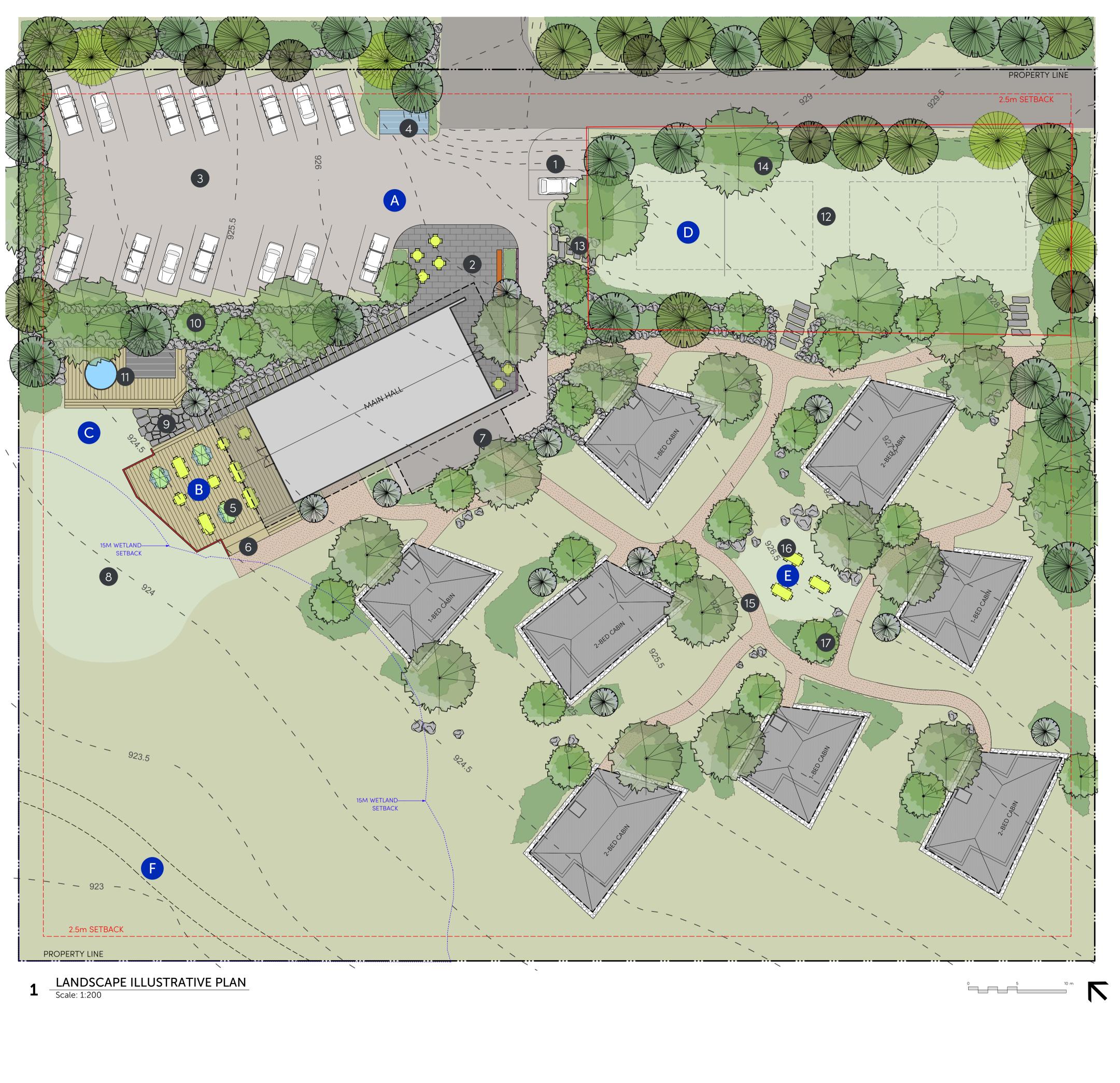
APPENDIX 2. CONCEPTUAL DESIGN PLANS AND SPEA SETBACK

LANDSCAPE DESIGN RATIONALE

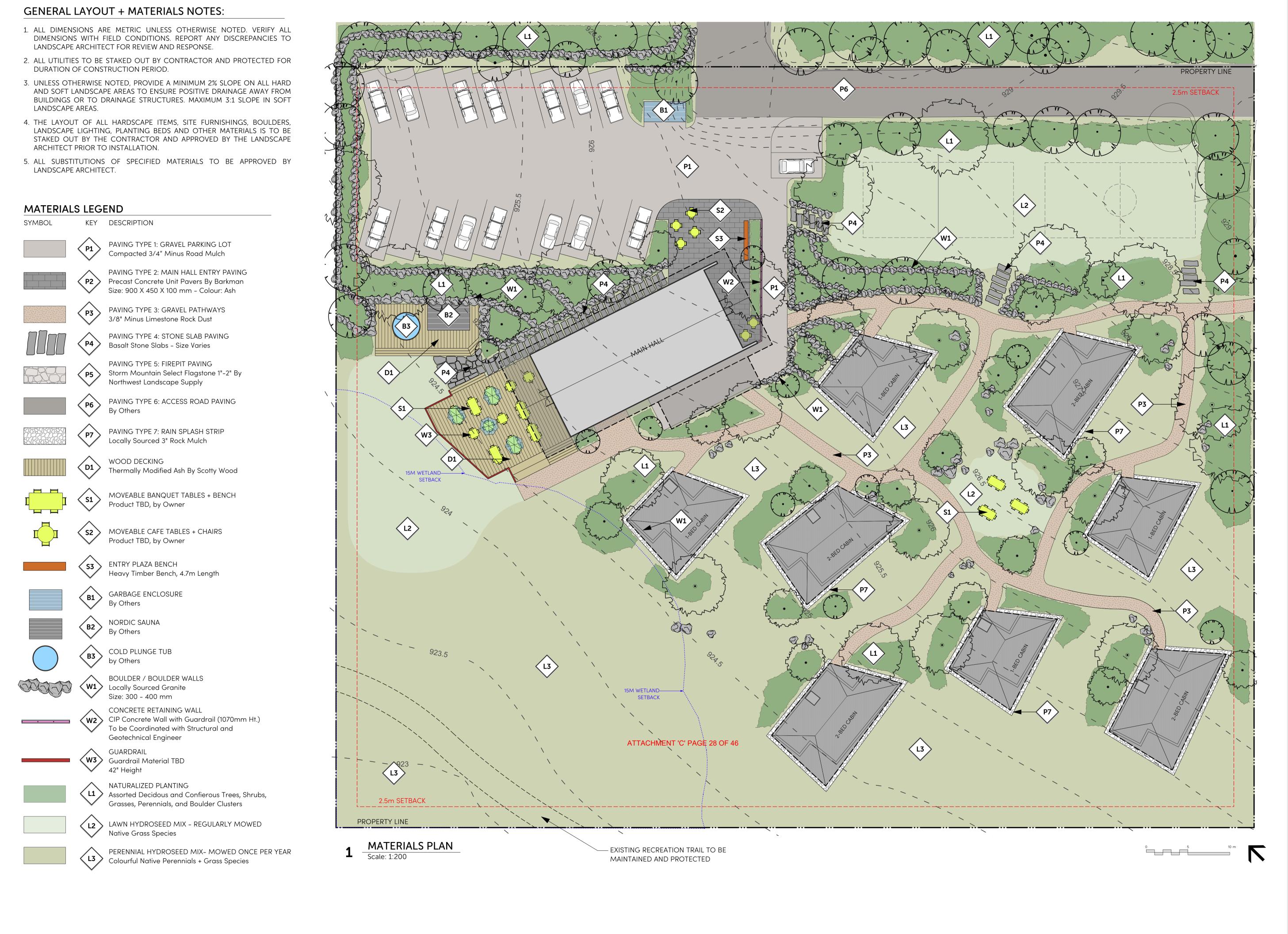
THE LANDSCAPE DESIGN FOR RUMBLING CREEK TAKES INTO ACCOUNT THE NUMEROUS FEATURES OF THIS SLOPED SITE, MAXIMIZING VIEWS TO THE WEST WHILE BALANCING A PLEASANT EXPERIENCE NAVIGATING THE SITE AND VARIOUS AMENITIES. NATURALIZED PLANTING SCREENS THE BUILDINGS FROM THE SURROUNDING CONTEXT AND PROVIDES PRIVACY TO THE CABINS AND EVENT SPACES. DECK AREAS FOR SOCIALIZING AND GATHERING ARE COMPLEMENTED BY FLEXIBLE MOWED LAWNS THAT CAN BE USED FOR GAMES AND RECREATION. CLUSTERS OF TREES AND SHRUBS PUNCTUATE THE MEADOW AND WILDFLOWER LANDSCAPE THROUGHOUT THE SITE. THE SECONDARY LAWN SPACE AMONGST THE CABINS PROVIDES A FAMILY RELAXATION AREA WITH PICNIC TABLES FOR GATHERING.

KEY LEGEND





LANDSCAPE ARCHITECTURE + URB	AN DESIGN
1738 KINGSWAY, VANCOUVER, BC www.locidesign.ca // 604.694.00	
ALL RIGHTS RESERVED. PROPERTY OF LOCI LANDSCAPE ARCH AND URBAN DESIGN. USE OR REPROD PROHIBITED WITH PRIOR WRITTEN CO	UCTION
Project Stamp	
Issue	
No. Description A Issued for Preliminary Landscape Concepts	Date 23-03-16
B Issued for Concept UpdateC Issued for RZ/DP	23-03-28 23-07-24
Project Info	
Rumbling Creek Cabi	ns
Nelson, BC	
Project Team Client Rumbling Creek Resort Ltd.	
Architect	
BLA Design Group Landscape Architect	Decise
LOCI Landscape Architecture + Urb	dan Design
Drawn By C	Checked By ME
	ATIVE
L1.0	
Rev. A revision	



	KINGSWAY, VANCOUVER, locidesign.ca // 604.694.	
PROPE AND U	GHTS RESERVED. ERTY OF LOCI LANDSCAPE AR RBAN DESIGN. USE OR REPRO BITED WITH PRIOR WRITTEN	DUCTION
Proje	ct Stamp	
A Is	escription sued for Preliminary andscape Concepts	Da 23-03-
B Is:	sued for Concept Update	23-03- 23-07-
Proje	ct Info	
23055		oins
23055	nbling Creek Cab	oins
23055 Run Nelsol	nbling Creek Cab n, BC	oins
23055 Run Nelson Projec Client Rumb	n bling Creek Cak n, BC ct Team ling Creek Resort Ltd.	oins
23055 Run Nelson Projec Client Rumb Archit BLA D	nbling Creek Cak n, BC ct Team ling Creek Resort Ltd. ect Pesign Group	oins
23055 Run Nelsol Projec Client Rumb Archit BLA D Lands	n bling Creek Cak n, BC ct Team ling Creek Resort Ltd. ect	

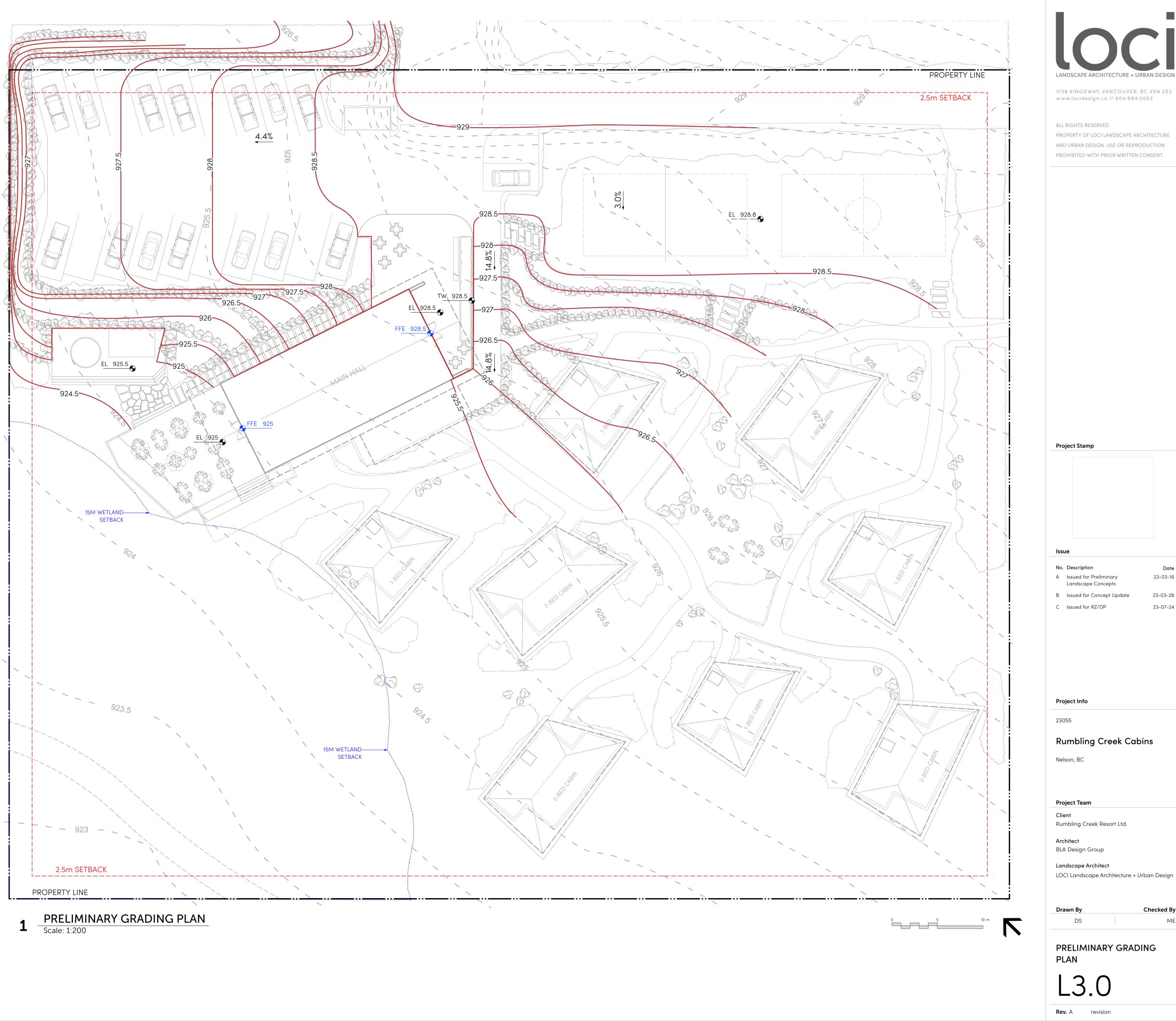
Rev. A revision

GENERAL GRADING NOTES:

- 1. ALL UTILITIES TO BE STAKED OUT BY CONTRACTOR AND PROTECTED FOR DURATION OF CONSTRUCTION PERIOD.
- 2. UNLESS OTHERWISE NOTED, PROVIDE A MINIMUM 2% SLOPE ON ALL HARD AND SOFT LANDSCAPE AREAS TO ENSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS OR TO DRAINAGE STRUCTURES. MAXIMUM 3:1 SLOPE IN SOFT LANDSCAPE AREAS.
- 3. THE LAYOUT OF ALL PROPOSED HARDSCAPE ITEMS, SITE FURNITURE, LIGHTING, PLANTING BEDS AND OTHER MATERIALS IS TO BE STAKED OUT BY THE CONTRACTOR AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- 4. ALL SUBSTITUTIONS OF SPECIFIED MATERIALS TO BE APPROVED BY LANDSCAPE ARCHITECT.
- 5. REFER TO CIVIL FOR EXCAVATION DEPTHS, BACKFILL, AND BASE MATERIAL FOR ALL LANDSCAPE ITEMS SHOWN ON PLAN.
- 6. SLOPE SHALL MATCH EXISTING GRADE ALONG ALL PROPERTY LINES.
- 7. REFER TO CIVIL ENGINEER'S PRECISE GRADING PLANS FOR SITE GRADING PLANS FOR SITE GRADING, DRAINAGE, AND UTILITY LOCATIONS. IF ACTUAL SITE CONDITIONS VARY FROM WHAT IS SHOWN ON THE LANDSCAPE ARCHITECT'S PLANS, THE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT FOR DIRECTION AS TO HOW TO PROCEED.
- 8. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION AND ELEVATION IN THE FIELD PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION.
- 9. ALL PROPOSED GRADES ARE TO MEET AND BLEND IN WITH EXISTING GRADING AT PROJECT LIMITS, GRADING LIMITS, AND EXISTING SIDEWALK. PRECISE ELEVATIONS INDICATED ON PLANS TO BE VERIFIED IN FIELD TO AS-BUILT CONDITION.
- 10. THE DEBRIS CREATED BY LANDSCAPE GRADING OPERATIONS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF LEGALLY OFF SITE.
- 11. FINAL GRADING SHALL BE REVIEWED BY THE LANDSCAPE ARCHITECT IN THE FIELD PRIOR TO INSTALLATION OF PLANTING.

GRADING LEGEND

SYMBOL	DESCRIPTION
FFE 0.00	PROPOSED BUILDING FINISHED FLOOR ELEVATION
EL 0.00	PROPOSED ELEVATION
TW 0.00	TOP OF WALL ELEVATION
4 2%	SLOPE AND DIRECTION
——928.5——	PROPOSED CONTOUR
	EXISTING CONTOUR



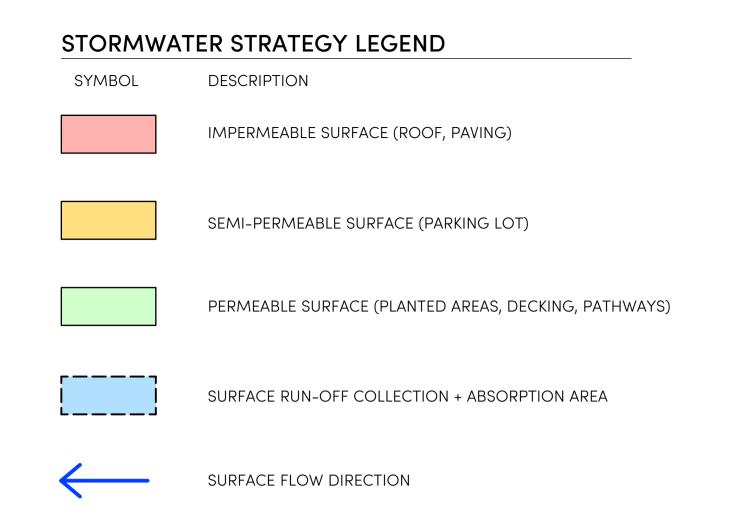
Date

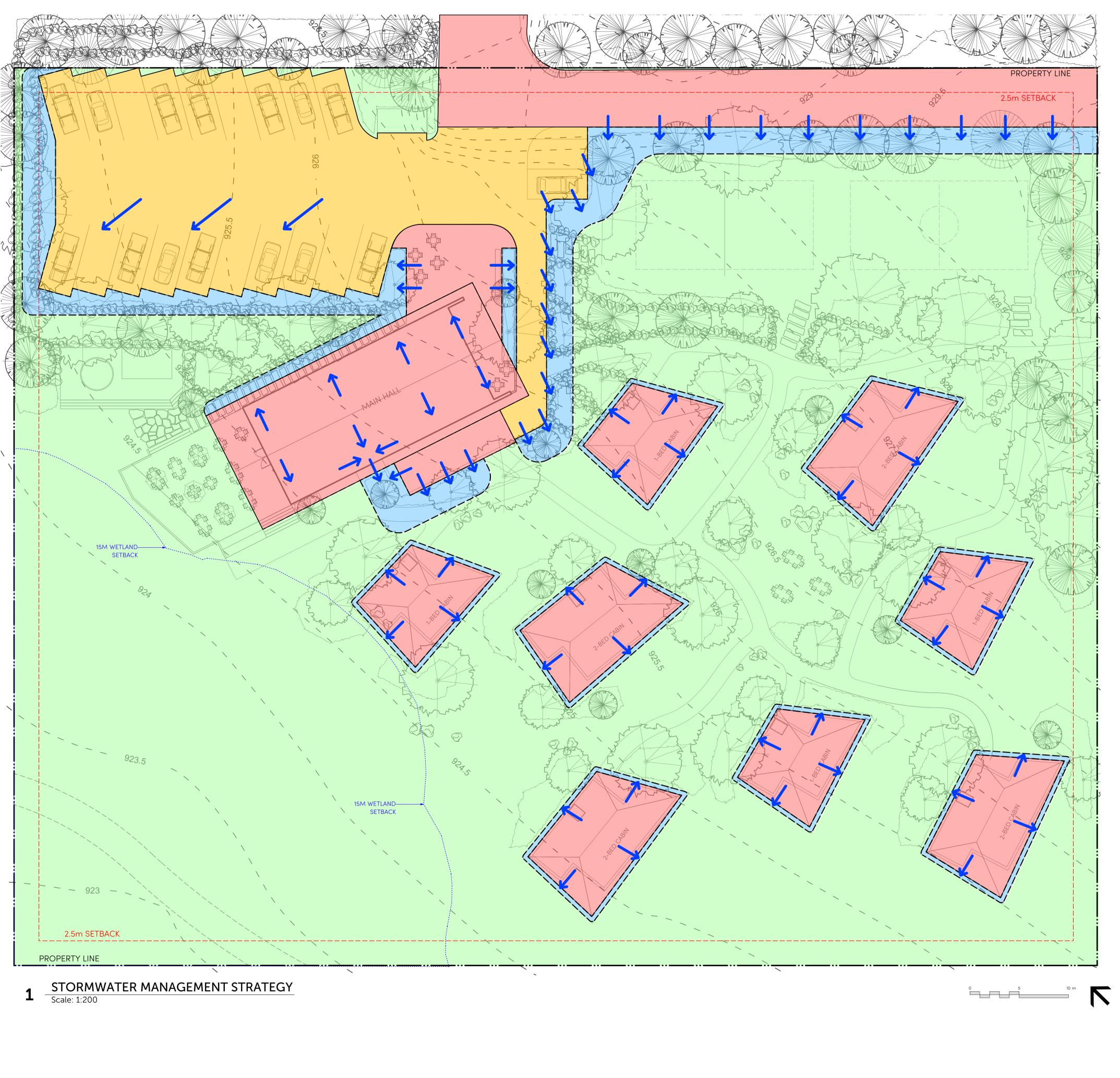
23-03-16

23-03-28

23-07-24

Checked By





LANDSCAPE ARCHITECTURE + URB/	AN DESIGN
1738 KINGSWAY, VANCOUVER, BC www.locidesign.ca // 604.694.00!	
ALL RIGHTS RESERVED. PROPERTY OF LOCI LANDSCAPE ARCHI AND URBAN DESIGN. USE OR REPRODU PROHIBITED WITH PRIOR WRITTEN CO	JCTION
Project Stamp	
Issue	
 No. Description A Issued for Preliminary Landscape Concepts B Issued for Concept Update C Issued for RZ/DP 	Date 23-03-16 23-03-28 23-07-24
Project Info	
23055	
Rumbling Creek Cabir	IS
Project Team	
Client Rumbling Creek Resort Ltd.	
Architect BLA Design Group Landscape Architect LOCI Landscape Architecture + Urbe	an Design
Drawn By C	hecked By ME
STORMWATER MANAGEMENT STRAT	EGY
L3.1	

Rev. A revision

GENERAL PLANTING NOTES:

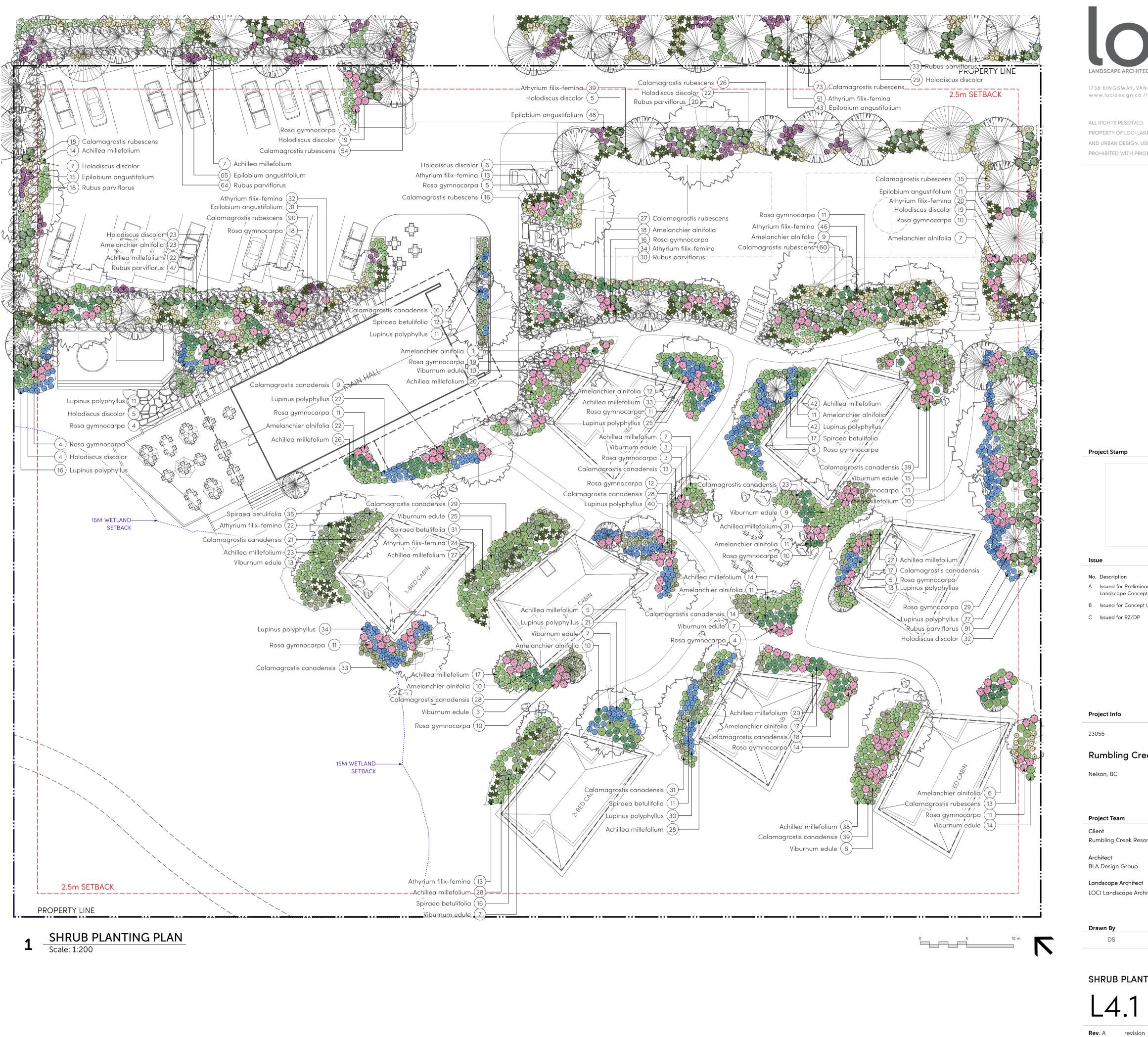
- 1. ALL PLANTING SHALL BE IN ACCORDANCE WITH BC LANDSCAPE STANDARD, LATEST EDITION
- 2. ALL TREE AND SHRUB AREAS TO BE MULCHED WITH 50MM (2") OF MEDIUM FINE MULCH, LESS THAN 50MM (2") DIAMETER.
- 3. ROOTZONE TO REST ON TAMPED PLANTING SOIL
- 4. SHRUBS: PREPARE PLANTING HOLES AS SPECIFIED. PLANT AT THE SAME GRADE AS NURSERY. WATER AND FERTILIZE AS SPECIFIED. ENSURE POSITIVE DRAINAGE THROUGHOUT PLANTING BED
- TREE: PREPARE PLANTING HOLES AS SPECIFIED INSTALL TOP OF ROOTZONE
 6" ABOVE FINISHED GRADE OF GROWING MEDIUM. WATER AND FERTILIZE AS SPECIFIED BY NURSERY.
- 6. FINAL SOFTSCAPE AND GRADING LAYOUTS AS WELL AS LOCATION SPACING TO BE APPROVED BY LANDSCAPE ARCHITECTS IN THE FIELD PRIOR TO INSTALLATION
- 7. IN CASE OF A DISCREPANCY BETWEEN PLANT INFORMATION ON THE LIST AND ON THE PLAN, THE LATTER SHALL PREVAIL
- 8. ALL PLANT MATERIAL TO BE MANUALLY WATERED FROM START OF INSTALLATION THROUGH THE END OF THE WARRANTY PERIOD
- 9. FINAL PLANT SPACING, QUANTITY AND TREE PLACEMENT TO BE REVIEWED TO THE SATISFACTION OF GENERAL MANAGER OF ENGINEERING SERVICES
- 10. ALL PLANTING BEDS TO RECEIVE AUTOMATIC DRIP IRRIGATION AND/OR WATERED DURING THE ESTABLISHMENT PERIOD



LANDSCAPE ARCHITECTURE + URBA	N DESIGN
1738 KINGSWAY, VANCOUVER, BC www.locidesign.ca // 604.694.005	V5N 2S3
ALL RIGHTS RESERVED. PROPERTY OF LOCI LANDSCAPE ARCHI AND URBAN DESIGN. USE OR REPRODU PROHIBITED WITH PRIOR WRITTEN COM	TECTURE
Project Stamp	
lssue	
 No. Description A Issued for Preliminary Landscape Concepts B Issued for Concept Update 	Date 23-03-16 23-03-28
C Issued for RZ/DP	23-07-24
Project Info	
23055	
Rumbling Creek Cabin	S
Project Team Client	
Rumbling Creek Resort Ltd. Architect BLA Design Group	
Landscape Architect LOCI Landscape Architecture + Urbo	an Design
Drawn By Cl	necked By ME
TREE PLANTING PLAN	

GENERAL PLANTING NOTES:

- 1. ALL PLANTING SHALL BE IN ACCORDANCE WITH BC LANDSCAPE STANDARD, LATEST EDITION
- 2. ALL TREE AND SHRUB AREAS TO BE MULCHED WITH 50MM (2") OF MEDIUM FINE MULCH, LESS THAN 50MM (2") DIAMETER.
- 3. ROOTZONE TO REST ON TAMPED PLANTING SOIL
- 4. SHRUBS: PREPARE PLANTING HOLES AS SPECIFIED. PLANT AT THE SAME GRADE AS NURSERY. WATER AND FERTILIZE AS SPECIFIED. ENSURE POSITIVE DRAINAGE THROUGHOUT PLANTING BED
- 5. TREE: PREPARE PLANTING HOLES AS SPECIFIED INSTALL TOP OF ROOTZONE 6" ABOVE FINISHED GRADE OF GROWING MEDIUM. WATER AND FERTILIZE AS SPECIFIED BY NURSERY.
- 6. FINAL SOFTSCAPE AND GRADING LAYOUTS AS WELL AS LOCATION SPACING TO BE APPROVED BY LANDSCAPE ARCHITECTS IN THE FIELD PRIOR TO INSTALLATION
- 7. IN CASE OF A DISCREPANCY BETWEEN PLANT INFORMATION ON THE LIST AND ON THE PLAN, THE LATTER SHALL PREVAIL
- 8. ALL PLANT MATERIAL TO BE MANUALLY WATERED FROM START OF INSTALLATION THROUGH THE END OF THE WARRANTY PERIOD
- 9. FINAL PLANT SPACING, QUANTITY AND TREE PLACEMENT TO BE REVIEWED TO THE SATISFACTION OF GENERAL MANAGER OF ENGINEERING SERVICES
- 10. ALL PLANTING BEDS TO RECEIVE AUTOMATIC DRIP IRRIGATION AND/OR WATERED DURING THE ESTABLISHMENT PERIOD



1738 k	SCAPE ARCHITECT		/5N 2S3
ALL RIG	GHTS RESERVED.		
	RTY OF LOCI LANDS		
	RBAN DESIGN. USE (BITED WITH PRIOR V		
Proje	ct Stamp		
lssue			
	escription sued for Preliminary		Dat 23-03-1
A ls: Lc	indscape Concepts		
A Iss Lc B Iss	sued for Concept Up	date	
A Iss Lc B Iss		date	
A Iss Lc B Iss	sued for Concept Up	date	
A Iss Lc B Iss	sued for Concept Up	date	
A Iss Lc B Iss	sued for Concept Up	date	
A Iss Lc B Iss	sued for Concept Up	date	
A Iss Lc B Iss C Iss	sued for Concept Up	date	23-03-2
A Iss Lc B Iss C Iss Projec	sued for Concept Up sued for RZ/DP	date	
A Iss Lo B Iss C Iss Projec	sued for Concept Up sued for RZ/DP	date	
A Iss Lc B Iss C Iss Projec	sued for Concept Up sued for RZ/DP		23-07-2
A 158 Lc B 158 C 158 Projec 23055 Run	sued for Concept Up sued for RZ/DP		23-07-2
A 158 Lc B 158 C 158 Projec 23055 Run	sued for Concept Up sued for RZ/DP		23-07-2
A 158 Lc B 158 C 158 Projec 23055 Run	sued for Concept Up sued for RZ/DP		23-07-2
A Iss Lc B Iss C Iss Projec 23055 Run Nelson Nelson	sued for Concept Up sued for RZ/DP		23-07-2
A Iss Lc B Iss C Iss Projec 23055 Run Nelson Projec Client	sued for Concept Up sued for RZ/DP	k Cabins	23-07-2
A Ise Lc B Ise C Ise 23055 Run Nelson Nelson Projec Client Rumb	et Info	k Cabins	23-07-2
A Ise Lc B Ise C Ise 23055 Run Nelson Nelson Projec Client Rumb	et Info	k Cabins	23-07-2
A Ise Lc B Ise C Ise 23055 Run Nelson Nelson Projec Client Rumb BLA D Lands	ect	k Cabins	23-07-2
A Ise Lc B Ise C Ise Projec 23055 Run Nelson Nelson Client Rumb Archit BLA D Lands	ect esign Group cape Architect	k Cabins	23-07-2
A Ise Lc B Ise C Ise 23055 Run Nelson Nelson Projec Client Rumb BLA D Lands	et Info holing Creek h, BC ct Team ling Creek Resort I ect esign Group cape Architect andscape Architer	k Cabins .td.	23-07-2

Symbol DECIDUOUS T	-	Botanical Name	Common Name	Scheduled Size	Spacing	Notes
		Betula nigra	River Birch	7cm cal.	As Shown	B&B
2 and the second		Populus tremuloides	Trembling Aspen	7cm cal.	As Shown	B&B
CONIFERS:		Populus trichocarpa	Black Cottonwood	7cm cal.	As Shown	B&B
		Larix laricina	American Larch	3.5m ht.	As Shown	В&Β
		Picea engelmannii	Engelman's Spruce	3.5m. ht.	As Shown	B&B
		Picea glauca	White Spruce	3.5m ht.	As Shown	B&B
		Picea pungens	Colorado Blue Spruce	3.5m ht.	As Shown	B&B
		Tsuga heterophylla	Western Hemlock	4m ht.	As Shown	B&B
SHRUBS:						
-		Amelanchier alnifolia	Saskatoon Berry	#3 Pot	0.8 m o.c.	
		Holodiscus discolor	Ocean Spray	#3 Pot	0.9 m o.c.	
S. S.		Rosa gymnocarpa	Baldhip Rose	#3 Pot	0.6 m o.c.	
		Rubus parviflorus	Thimbleberry	#2 Pot	0.6 m o.c.	
		Spiraea betulifolia	Birch Leaf Spirea	#2 Pot	0.6 m o.c.	
		Viburnum edule	Highbush Cranberry	#3 Pot	0.6 m o.c.	
	GRASSES, GI	ROUNDCOVER:				
		Achillea millefolium	Yarrow	#1 Pot	0.3 o.c.	
*		Calamagrostis canadensis	Bluejoint	#2 pot	0.5 o.c.	
<i>.</i>		Calamagrostis rubescens	Pine grass	#2 pot	0.6 o.c.	
•		Epilobium angustifolium	Fireweed	#1 Pot	0.6 o.c.	
		Lupinus polyphyllus	Big Leaf Lupine	#1 Pot	0.6 o.c.	

Native Species listed can be found at Nupqu Native Plant Nursery

PLANT IMAGES

SCREENING TREES AND SHRUBS



Acer glabrum var. douglassii Douglas Maple



Picea engelmannii Engelmann Spruce



Picea glauca White Spruce



Athyrium filix-femina Lady Fern



Calamagrostis rubescens Pinegrass



Epilobium angustifolium Fireweed



Populus trichocarpa Black Cottonwood



Prickly Currant



Tsuga heterophylla Western Hemlock

NATURALIZED TREE AND SHRUB CLUSTERS



Achilea millefolium occidentalis Western Yarrow



Saskatoon



Calamagrostis canadensis Bluejoint



Rubus parviflorus Thimbleberry

HYDROSEED MEADOW MIX



Linum lewisii Lewis Flax

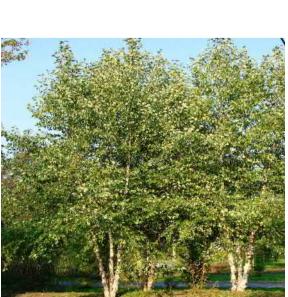




Salix discolor Pussy Willow



Symphoyotrichum sybspicatum Douglas Aster



Betula nigra River Birch





Rosa gymnocarpa

85

ANDSCAPE ARCHITECTURE + URBAN DESIGN

1738 KINGSWAY, VANCOUVER, BC V5N 2S3 www.locidesign.ca // 604.694.0053

PROPERTY OF LOCI LANDSCAPE ARCHITECTURE AND URBAN DESIGN. USE OR REPRODUCTION PROHIBITED WITH PRIOR WRITTEN CONSENT.

ALL RIGHTS RESERVED.







Holodiscus discolor Ocean Spray

Larix occidentalis Western Larch





Mountain Huckleberry





Lupinus polyphyllus Big Leaf Lupine



Spirea betulifolia Birch Leaf Spirea





Viburnum edule Highbush Cranberry

lssu	9	
А	Description Issued for Preliminary Landscape Concepts	Date 23-03-16
В	Issued for Concept Update	23-03-28
С	lssued for RZ/DP	23-07-24
Proj	ect Info	
2305	5	
Ru	mbling Creek Ca	bins
Nols	on, BC	
INEIS		
Duci	t T	
	ect Team	
Clier		
Clie Rum	nt Ibling Creek Resort Ltd.	
Clier Rum Arch	nt	
Clier Rum Arch BLA	nt Ibling Creek Resort Ltd. itect Design Group	
Clier Rum Arch BLA Land	nt Ibling Creek Resort Ltd. itect	Urban Design
Clier Rum Arch BLA Land	nt Ibling Creek Resort Ltd. I itect Design Group dscape Architect	Urban Design
Clier Rum Arch BLA Land LOC	nt Ibling Creek Resort Ltd. Itect Design Group dscape Architect I Landscape Architecture +	-
Clier Rum Arch BLA Land LOC	nt Ibling Creek Resort Ltd. I itect Design Group dscape Architect	Urban Design Checked By ME

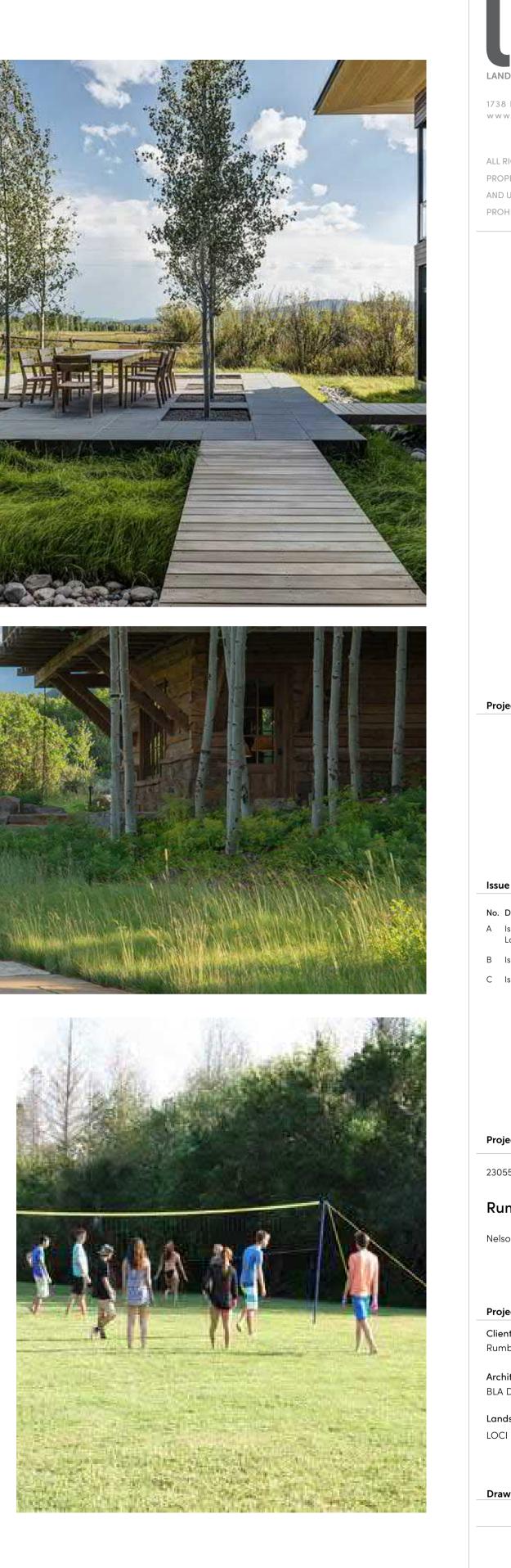
Rev. A revision





Festuca ovina Sheep's Fecue







1738 KINGSWAY, VANCOUVER, BC V5N 2S3 www.locidesign.ca // 604.694.0053

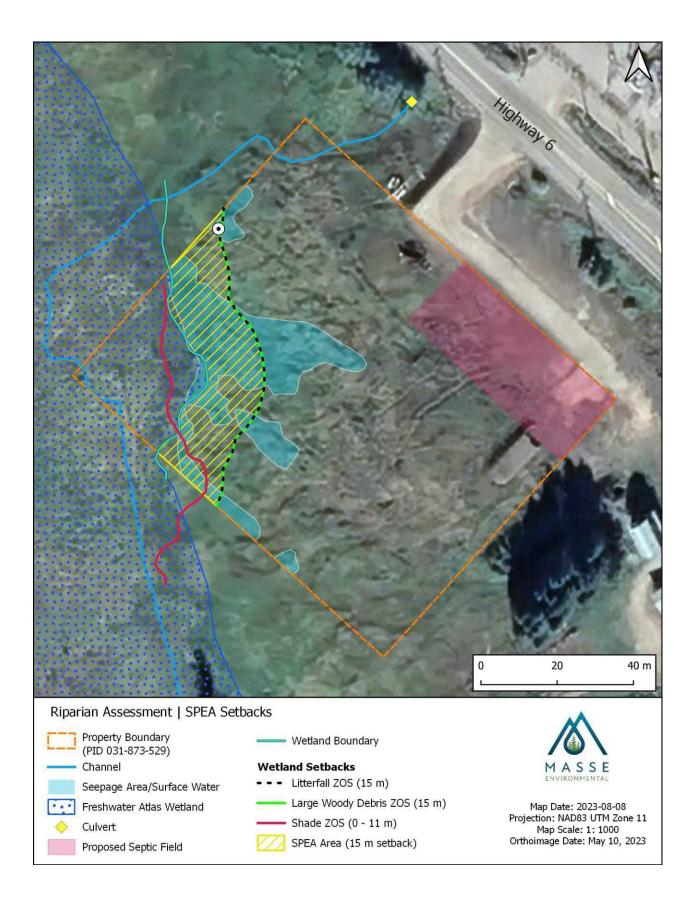
ALL RIGHTS RESERVED. PROPERTY OF LOCI LANDSCAPE ARCHITECTURE AND URBAN DESIGN. USE OR REPRODUCTION PROHIBITED WITH PRIOR WRITTEN CONSENT.

Project Stamp	
lssue	
No. Description A Issued for Preliminary Landscape Concepts B Issued for Concept Update C Issued for RZ/DP	Date 23-03-16 23-03-28 23-07-24
	23-07-24
Project Info 23055	
Rumbling Creek Cab	ins
Nelson, BC	
Project Team	
Client Rumbling Creek Resort Ltd.	
Architect BLA Design Group	
Landscape Architect LOCI Landscape Architecture + U	rban Design
Drawn By	Checked By
DS	ME

PRECEDENT IMAGES

Rev. A revision

APPENDIX 3. SPEA SETBACKS



APPENDIX 4. ARCHAEOLOGICAL CHANCE FIND PROCEDURE



Ktunaxa Nation Council 7825 Mission Road Cranbrook, BC V1C 7E5 tel: 250-489-2464 fax: 250-489-2438

visit us at: www.ktunaxa.org

Chance Find Procedures for Archaeological Material

This document provides information on how a developer and/or their contractor(s) can manage for potential archaeological material discoveries while undertaking construction and/or maintenance activities. This document can provide assistance to in-field contractors in the identification of archaeological remains and the procedures to follow if a discovery is made. The discovery of human remains initiates a different course of action and is outlined separately.

Under the provincial *Heritage Conservation Act (HCA)*, archaeological sites that pre-date 1846 are automatically protected whether on public or private land. Protected sites may not be damaged, altered or moved in any way without a Section 12 or 14 Permit as issued through the *HCA*. It is illegal to collect or remove any heritage object from an archaeological site unless authorized to do so under permit.

1. Activities occurring outside of known Archaeological Sites:

When archaeological material is encountered outside of known archaeological site areas work in the vicinity must stop immediately no matter what type of material or feature has been identified. Alteration to an archaeological site can only occur under a Section 12 (Site Alteration Permit) or Section 14 (Heritage Inspection Permit) *Heritage Conservation Act* permit. Such permit applications should be prepared by a professional archaeologist.

If archaeological material is discovered during the course of construction activities:

- 1.1 **Stop Work:** Halt all work in the area of the discovery and safely secure the area. Contact the project manager or site foreman.
- 1.2 **Contact an Archaeologist:** An archaeologist should be contacted as soon as possible. For a list of qualified archaeologists in the area, the proponent is directed to the BC Association of Professional Consulting Archaeologists website: <u>www.bcapa.ca</u>. The proponent may also wish to contact the Ktunaxa Nation Council's Archaeology Technician Nathalie Allard for direction (1-250-426-9549; <u>nallard@ktunaxa.org</u>).
- 1.3 **Archaeologist provides guidance:** The archaeologist will direct the proponent on the next courses of action, which will include notifying the Archaeology

?akisgnuk

7agam

Lower Kootenay

Tobacco Plains

Branch and First Nations with interest in the area.

2. Activities Occurring within Known Archaeological Site Boundaries:

Land altering activity within a previously recorded archaeological site must be conducted under a Section 12 HCA Site Alteration Permit (SAP), in some cases with an onsite archaeological monitor. It is common for additional archaeological material and features to be encountered during activities occurring within previously recorded archaeological sites. Minor finds (lithic flakes, diffuse charcoal or fire altered rock) may not require work to stop, however significant finds require a level of assessment by a professional archaeologist, and it is up to the onsite project manager to determine the level of significance based on criteria presented below.

2.1 Significant Cultural Finds that Require a Professional Archaeologist (described in detail in Section 4)

- Intact archaeological features, which can include but are not limited to hearths, cultural depressions (e.g. cache pits, house depressions) and rock alignments or forms (e.g. tipi rings, cairns, blinds)
- Significant archaeological materials, which include but are not limited to, the presence of formed lithic tools (e.g. projectile point, microblade core, scraper), a dense concentration of lithic waste flakes, or artistic items
- Human Remains (described in detail in Section 3)

2.2 Archaeological Site Management Options

- Site Avoidance: If the boundaries of a site have been delineated, redesign 2.2.1 the proposed development to avoid impacting the site. Avoidance is normally the fastest and most cost effective option for managing archaeological sites. Site avoidance could also be achieved through minimizing ground disturbance by looking for alternative constructive methods.
- 2.2.2 **Mitigation**: If it is not feasible to avoid the site through project redesign, it is necessary to conduct systematic data collection and analysis within the site prior to its loss. This could include surface collection and/or excavation. This work can be time-consuming and therefore expensive to conduct.
- 2.2.3 **Protection**: It may be possible to protect all or portions of the site which will be impacted through installation of barriers during the development period and possibly for a longer period of time. Methods for barrier construction could include fencing around site boundaries or applying

Takisgnuk

?aqam

Lower Kootenay 91

Tobacco Plains

geotextile to the ground surface and capping it with fill. The exact method used would be site-specific.

3. Chance Find Procedures for Identified Human Remains

Procedures in the event of the discovery of human remains during construction are covered in depth by an Archaeology Branch Policy Statement, found on their website at www.for.gov.bc.ca/archaeology, and are summarized below.

- 3.1 Stop all construction activities immediately in the area of found or suspected human remains and contact the RCMP and/or Office of the Coroner.
- 3.2 The coroner must determine whether the remains are of contemporary forensic concern or archaeological/aboriginal.
- 3.3 If the remains are found to be of aboriginal ancestry then the next step involves the relevant First Nations collaboratively determining the appropriate treatment of those remains.

The key to respectfully dealing with ancient aboriginal remains is to involve the appropriate First Nations as early as possible in the process. However this must be done in a manner that does not interfere with the coroner's office ability to conduct their business in the manner that they see fit.

4. Site Identification Guide

The following are characteristics typical to site types found within the Ktunaxa Traditional Territory.

4.1 Artifact Scatters

Lithic (stone) scatters from the production and maintenance of stone tools are the most common type of archaeological site found in the region. Other materials that may be represented in artifact scatters are Fire Broken Rock (FBR), bone, antler and tooth.

Takisgnuk

?aqam

Lower Kootenay 92

Tobacco Plains

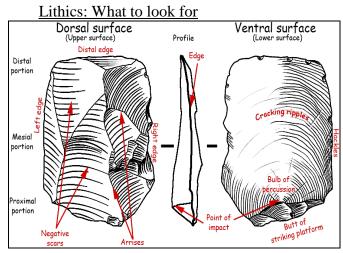


Image 1: Basic flake morphology

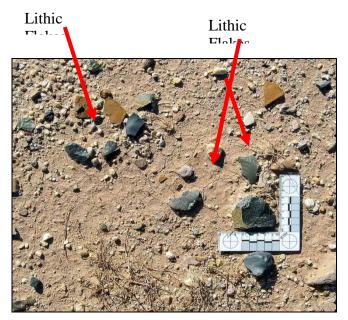


Image 3: Example of lithic scatter found on ground surface



Image 2: Examples of lithic flakes



Image 4: Example of formed lithic artifacts

Pakisynuk.

?a'gam

Lower Kootenay 93

Tobacco Plains

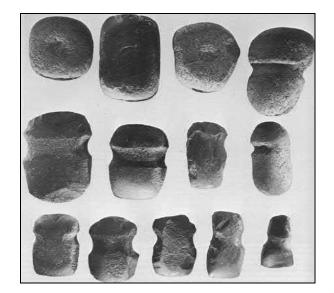


Image 5: Ground stone artifacts

Bone, Tooth and Antler Artifacts: What to Look For

- Obvious shaping
- Incising
- Unnatural holes



Takisýnuk

?a'qam

Lower Kootenay 94

Tobacco Plains

Image 6: Bone and Antler artifacts 4.2 Fire Broken Rock and Hearths

Fire-broken rock (FBR) results from the use of fire during cooking, heating and processing activities. FBR is often associated with other features including hearths and cultural depressions, but can also be thinly scattered in concentrations away from the features with which they were first associated.

When looking for FBR, note concentrations of roughly fractured rock from rapid heating and cooling, rock showing signs of burning or oxidation and/or reddening or blackening of surrounding matrix.



Image 7: Example of FBR; note the zig/zag pattern of breakage common to FBR A hearth feature is evidence of a fire pit or other fireplace feature of any period. Hearths were used for cooking, heating, and processing of some stone, wood, faunal, and floral resources and may be either lined with a wide range of materials like stone or left unlined. Occasionally site formation processes (e.g., farming or excavation) deform or disperse hearth features, making them difficult to identify without careful study. Hearths: What to look for

- FBR •
- reddening or blackening of the associated soil/sediment •
- charcoal •
- layering of FBR and charcoal, and •
- depressions in the earth associated with FBR, reddened or blackened matrix and • charcoal.

Takisynuk

?aqam

Lower Kootenay 95

Tobacco Plains



Image 8: Example of a hearth uncovered along the wall of an excavation unit 4.3 Cultural Depressions

Any depression seen on the ground surface that appears to have been excavated by man can be a cultural depression and have archaeological significance. These "pits" were dug for a variety of reasons such as for food storage, cooking or as a base for a dwelling. They can range in size from 1m across to 7-10m across, and are usually found associated with other artifacts such as FBR and lithic scatters.

To identify a cultural depression, look for:

- Subtle to deep scours on the ground surface that are circular to rectilinear in shape •
- A raised rim along the edge of a depression •
- Depressions associated with artifacts and FBR ٠
- Depressions associated with fire reddening and blackening of the matrix •

Takisynuk

?a'qam

Lower Kootenay 96

Tobacco Plains



Image 9: Example of a large cultural depression in a natural setting 4.6 Rock Alignments

There are several types of rock alignments that occur within the culture area, which include tipi rings, medicine wheels, cairns and blinds. When attempting to identify rock alignments, look for a group of rocks that look purposefully placed as in a circle, pile or line; isolated groups of rock that do not seem to belong to that landscape; and/or rocks which form a pattern.



Image 10: Example of a Cairn or piling of rocks



Image 11: Example of a tipi ring in a natural setting



?a'qam

Lower Kootenay 97

Tobacco Plains