

Tender Documents

Resort Municipality of Whistler

March 2025

RMOW 2025 Road and Trail Reconstruction Contract No. T00102



Owner:

Resort Municipality of Whistler

(NAME OF OWNER)

Contract:

RMOW 2025 Road and Trail Reconstruction

(TITLE OF CONTRACT)

Reference No.

T00102

(OWNER'S CONTRACT REFERENCE NO.)

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Owner: Resort Municipality of Whistler
(NAME OF OWNER)

Contract: RMOW 2025 Road and Trail Reconstruction
(TITLE OF CONTRACT)

Reference No. T00102
(OWNER'S CONTRACT REFERENCE NO.)

The Owner invites tenders

for: The performance of pavement rehabilitation and local improvement works on various road and valley trail locations throughout the Resort Municipality of Whistler. The work includes the rehabilitation of four segments of road and one segment of valley trail throughout the Resort Municipality.
(BRIEF DESCRIPTION OF THE WORK)

Contract Documents are available during normal business hours at:

This Tender is being issued electronically through the BC Bid website (www.bcbid.gov.bc.ca) where any interested party may download the Tender documents directly from the aforementioned website. No registration, tracking or other recording of Tender document holders will be performed by the Resort Municipality of Whistler. All addenda, amendments or further information will be published on the BC Bid website. It is the sole responsibility of the Tenderer to monitor the website regularly to check for updates.

(LIST ADDRESSES FOR DOCUMENT PICKUP)

The Contract Documents are available for viewing at:

Resort Municipality of Whistler
Municipal Hall
4325 Blackcomb Way
Whistler, BC V8E 0X5
(ADDRESS WHERE CONTRACT DOCUMENTS CAN BE VIEWED)

Tenders are scheduled to close:

Tender Closing Time: 2:00pm local time

Tender Closing Date: April 21, 2025

Address: Resort Municipality of Whistler
Municipal Hall
4325 Blackcomb Way
Whistler, BC V8E 0X5
engineerbids@whistler.ca
(EMAIL WHERE TENDERS MUST BE SUBMITTED ELECTRONICALLY)

Name of Owner's representative:

Graham Schulz, P.Eng.
Contract Administrator
gschulz@islengineering.com
604-815-4646
(PHONE)

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(FOR USE WHEN UNIT PRICES FORM THE BASIS OF PAYMENT TO BE USED ONLY WITH THE GENERAL CONDITIONS AND OTHER STANDARD DOCUMENTS
OF THE UNIT PRICE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS.)

**(TO BE READ WITH “INSTRUCTIONS TO TENDERERS - PART II”
CONTAINED IN THE EDITION OF THE PUBLICATION
“MASTER MUNICIPAL CONSTRUCTION DOCUMENTS” SPECIFIED IN ARTICLE 2.2 BELOW)**

Owner: Resort Municipality of Whistler
(NAME OF OWNER)

Contract: RMOW 2025 Road and Trail Reconstruction
(TITLE OF CONTRACT)

Reference No. T00102
(OWNER'S CONTRACT REFERENCE NO.)

1.0 Introduction 1.1

These Instructions apply to and govern the preparation of tenders for this *Contract*. The *Contract* is generally for the following work:

The performance of pavement rehabilitation and local improvement works on various road and valley trail locations throughout the Resort Municipality of Whistler. The work includes the rehabilitation of four segments of road and one segment of valley trail throughout the Resort Municipality.
(BRIEF DESCRIPTION OF THE WORK)

1.2 Direct all technical inquiries regarding the *Contract*, to:
Graham Schulz, P.Eng.
Contract Administrator
(NAME AND POSITION OF INDIVIDUAL WHO WILL ANSWER INQUIRIES)

Address: ISL Engineering and Land Services Ltd.
200 - 39470 Queens Way
Squamish, BC V8B 0Z5

Phone: 604-815-4646

Fax: 604-815-4647

Email: gschulz@islengineering.com

Direct all general inquiries regarding the *Contract*, to:

Chelsey Roberts
Manager of Infrastructure Projects

(NAME AND POSITION OF INDIVIDUAL WHO WILL ANSWER INQUIRIES)

Address: Resort Municipality of Whistler
4325 Blackcomb Way
Whistler BC, V8E 0X5

Phone: 778-997-9425

Email: croberts@whistler.ca

- 2.0 Tender Documents**
- 2.1 The tender documents which a tenderer should review to prepare a tender consist of all of the *Contract Documents* listed in Schedule 1 entitled “Schedule of Contract Documents”. Schedule 1 is attached to the Agreement which is included as part of the tender package. The *Contract Documents* include the drawings listed in Schedule 2 to the Agreement, entitled “List of *Contract Drawings*”.
- 2.2 A portion of the *Contract Documents* are included by reference. Copies of these documents have not been included with the tender package. These documents are the Instructions to Tenderers - Part II, General Conditions, Specifications and Standard Detail Drawings. They are those contained in the publication entitled “Master Municipal Construction Documents - General Conditions, Specifications and Standard Detail Drawings”. Refer to Schedule 1 to the Agreement or, if not specified in Schedule 1, then the applicable edition shall be the most recent edition as of the date of the *Tender Closing Date*. All sections of this publication are by reference included in the *Contract Documents*.
- 2.3 Any additional information made available to tenderers prior to the *Tender Closing Time* by the *Owner* or representative of the *Owner*, such as geotechnical reports or as-built plans, which is not expressly included in Schedule 1 or Schedule 2 to the Agreement, is not included in the *Contract Documents*. Such additional information is made available only for the assistance of tenderers who must make their own judgment about its reliability, accuracy, completeness and relevance to the *Contract*, and neither the *Owner* nor any representative of the *Owner* gives any guarantee or representation that the additional information is reliable, accurate, complete or relevant.
- 3.0 Submission of Tenders**
- 3.1 Tenders must be submitted electronically to the email address noted below. The email should indicate the Contract Title and Contract No. (See Tender Documents cover page) in the subject line and the proponents full legal name in the body of the email.

Tenderers should note that the maximum acceptable email size is 8MB. If greater than 8GB the Tenderer should email response in multiple emails with each email indicating the total number of emails being sent. All emails must be received prior to the Submission Deadline.

on or before

Tender Closing Time:

2:00pm local time

Tender Closing Date:

April 21, 2025

at

Address: Resort Municipality of Whistler
Municipal Hall
4325 Blackcomb Way
Whistler BC, V8E 0X5
engineerbids@whistler.ca

(EMAIL WHERE TENDERS MUST BE SUBMITTED ELECTRONICALLY)

Fax: n/a

- 3.2 Late tenders will not be accepted or considered.
- 3.3 Depending on the available funds to complete the work program, the scope of the work may be decreased due to budget constraints. The *Owner* reserves the right to reduce or remove projects based on available funds.

**4.0 Supplemental
Instructions
to Tenderers**

4.1 Completing the Form of Tender

The submitted Form of Tender must be legible, written in ink, or by typewriter and ALL ITEMS MUST BE BID, unless the Form of Tender specifically permits otherwise, with the price for every item and other extras clearly shown. Each page must be initialed by the Tenderer.

The Tenderer shall be deemed to have satisfied himself as to the sufficiency of his tender for the work and of the unit and lump sum prices stated in the Form of Tender. These unit prices shall cover all his costs including overhead, profit and tax, except for the Goods and Services Tax as explained in the following paragraphs of this section, for carrying out the works and his obligations under this Contract.

This document contains one extra separate set of the Form of Tender. The Contractor shall complete and submit the separate set of the Form of Tender, in accordance with the Instructions to Tenderers and keep the remaining documents for record purposes.

The "Amount" column shall be totaled in groups of items as shown and each total for a group of items shall be carried to the Summary Sheet for insertion in the appropriate place. The totals for all groups of items shall be added to give the Total Tender Price, Goods and Services Tax of 5% shall be calculated separately then added to arrive at the Total Tender Price including GST.

4.2 Right to Accept or Reject Tenders

The Owner reserves the right to reject any or all tenders or to accept any tender should it be deemed in the interest of Owner to do so. The lowest tender will not necessarily be accepted.

For each item listed in the Form of Tender, there shall be a reasonable unit price. Under no conditions will an unbalanced tender be considered. The Contract Administrator will be the sole judge of such matters. Any tender considered to be unbalanced shall be rejected by the Owner.

Without limiting the generality of the foregoing, any tender may be disqualified or rejected which is incomplete, obscure or irregular, which had erasures or corrections in the Form of Tender, in which prices are omitted or which has an insufficient or irregular Surety.

4.3 Award

The Owner will, following receipt of an acceptable tender, issue in writing a Notice of Award to the successful Tenderer. This notice will be given as soon as possible following the closing of tenders and, unless otherwise agreed to by the Tender, not later than sixty (60) days following the closing of tenders.

The following amendments reference Instructions to Tenderers - Part II:

12.1S	Amendment of Tenders	Delete “hand, mail or fax to the office” and Replace with “email”
15.4S	Award	<p>Insert the following clause:</p> <p>“The lowest or any tender will not necessarily be accepted. Without limiting the generality of the foregoing, any tender which is incomplete, obscure or irregular may be rejected, any tender having erasures or corrections in the Form of Tender: Appendix 1, Schedule of Quantities & Prices may be rejected, any tender in which unit prices are omitted or in which unit prices are obviously unbalanced may be rejected, any tender accompanied by an insufficient bond may be rejected, any tender that has any deletions, alterations, or changes in the <i>Contract Documents</i> as listed in Schedule 1 and 2 of the Agreement may be rejected.”</p>
15.5S		<p>Insert the following clause:</p> <p>In exercising its discretion, the <i>Owner</i> will have regard to the information provided by the tenderer in the Appendices to the Form of Tender as described under IT 5.3, and may also have regard to any information obtained by the <i>Owner</i> in evaluation of such tender information, any information obtained by the Owner from any other person, firm or corporation relating to their previous experience with the tenderer, as well as the <i>Owner’s</i> previous relevant experience, if any, with the tenderer. In exercising this discretion the <i>Owner</i> may consider, but is not limited to, the following criteria in addition to the <i>Tender Price</i>.</p>

- a) the proven experience of the tenderer, and any listed subcontractors to do the *Work*;
- b) the tenderer's ability to complete the *Work* within the *Preliminary Construction Schedule* including timeliness in completing deficiency works;
- c) the tenderer's ability to work effectively with the *Owner*, its consultants and representatives, and the public;
- d) the tenderer's ability to manage and do the work effectively using the named superintendent and submitted contractors and subcontractors;
- e) the tenderer's history on other projects including with respect to quality of work, changes in the work, force account work, cooperation with the *Owner*, and the contract administration costs of the *Owner*;
- f) the nature of any legal proceedings undertaken by the tenderer, or any officer or director of the tenderer directly (or indirectly through another corporation) against the *Owner* within the last five years of the Invitation to Tender.

In no event shall the *Owner* be liable for the tenderer's costs of preparing a tender.

The award of this Contract is subject to the availability of sufficient funds to complete the work.

Basis of Contract Award & Acceptance

In reviewing tenders and awarding the *Contract* for this project the *Owner* may consider not only the tendered prices but the overall value that the tender represents to the *Owner* based on quality, service and price, and the tenderer's experience and qualifications considered essential by the *Owner* for the satisfactory completion of this type and size of project, including:

- a) Bonding capability.
- b) Financial capability.
- c) Previous completed projects of this type and/or size.
- d) Major projects now being undertaken by the tenderer.
- e) Key office and site personnel to be assigned by the tenderer to this project.
- f) Time for completion of the *Work*.
- g) The past experience of the *Owner* and/or other project owners with respect to the tenderer's performance in completing projects in a timely, efficient and satisfactory manner, the tenderer's methods of doing business and the tenderer's ability to establish and maintain a good working relationship with a project owner.

The *Owner* reserves the right to award the *Contract* based on the above pre-requisites and to reject without further consideration, any tender which in its opinion, does not meet the criteria it considers essential for this project.

The tenderer, by submitting a tender, agrees that it will not make a claim against the *Owner*, for whatever reason, relating to the tender, the tender documents, or the competitive

tender process. The tenderer, by submitting a tender, waives any claim or recovery for loss of profits or any prospective damages whatsoever if no *Contract* is entered into with the tenderer.

4.4 Contract Time

The Tenderer may alter the contract time noted in the Form of Tender; however, he shall be responsible for inspection costs incurred for each working day beyond the noted time subject to the Provisions of the General Conditions. The applicable cost will be \$1,500.00 per working day.

4.5 Hours of Work

The hours of work for all project sections must not extend beyond 0700h and 2000h, inclusive, daily. The Contractor shall schedule his work within these hours and will not be permitted to commence work earlier than 0700h and/or work later than 2000h, except as authorized by the Contract Administrator.

No work on Saturdays, Sundays, or Statutory Holidays will be permitted except in case of emergency and then only with written permission of the Contract Administrator and to such extent as he deems necessary.

The Owner reserves the right not to allow any work to be undertaken on Weekends or Statutory Holidays.

4.6 Budget Constraints

Depending on the available funds to complete the capital works program, the scope of work may be decreased due to budget constraints. The Owner reserves the right to reduce or remove projects based on available funds.

4.7 Note that the MMCD (this Contract is based on the **2009 Platinum Edition**) must be purchased separately from:

MMCD
102, 211 Columbia Street
Vancouver, BC V6A 2R5

Phone: 604-681-0295
Fax: 604-681-4545
Email: admin@mmcd.net

- 4.8 Contractor is to familiarize himself/herself with IT Part II – Section 10.0**
- Add IT Part II – Section 10.3**
“It shall be the responsibility of the Tenderer to include in his tender sufficient amounts to cover the cost of the work and materials not listed in the Schedule of Quantities and Unit Prices and specifications by either direct mention or implication. All such amounts shall be included in the items to which they pertain most closely in the Schedule of Quantities and Unit Prices.
- 4.9 Contractor is to be aware of road closure restrictions in the municipality as noted in the Supplemental Specifications General Requirements Section 28.0.**

FOR USE WHEN UNIT PRICES FORM THE BASIS OF PAYMENT - TO BE USED ONLY WITH THE GENERAL CONDITIONS
AND OTHER STANDARD DOCUMENTS OF THE UNIT PRICE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS.

Owner: Resort Municipality of Whistler
(NAME OF OWNER)

Contract: RMOW 2025 Road and Trail Reconstruction
(TITLE OF CONTRACT)

Reference No. T00102
(OWNER'S CONTRACT REFERENCE NO.)

To Owner:

**WE, THE
UNDERSIGNED:**

- 1.1 have received and carefully reviewed all of the *Contract Documents*, including the Instructions to Tenderers, the specified edition of the "Master Municipal Construction Documents - General Conditions, Specifications and Standard Detail Drawings" and the following Addenda:

(ADDENDA, IF ANY)

- 1.2 have full knowledge of the *Place of the Work*, and the *Work* required; and

- 1.3 have complied with the Instructions to Tenderers; and

**ACCORDINGLY WE
HEREBY OFFER:**

- 2.1 to perform and complete all of the *Work* and to provide all the labour, equipment and material all as set out in the *Contract Documents*, in strict compliance with the *Contract Documents*; and
- 2.2 to achieve Substantial Performance on or before September 30, 2025 for Form of Tender items 1.0, 2.0, 3.0, 4.0 and 5.0
(WORK DURATION OR DATE)

- 2.3 to do the *Work* for the price, which is the sum of the products of the actual quantities incorporated into the *Work* and the appropriate unit prices set out in Appendix 1, the "*Schedule of Quantities and Prices*", plus any lump sums or specific prices and adjustment amounts as provided by the *Contract Documents*. For the purposes of tender comparison, our offer is to complete the *Work* for the "*Tender Price*" as set out on Appendix 1 of this Form of Tender. Our *Tender Price* is based on the estimated quantities listed in the *Schedule of Quantities and Prices*, and excludes GST.

WE CONFIRM:

- 3.1 that we understand and agree that the quantities as listed in the *Schedule of Quantities and Prices* are estimated, and that the actual quantities will vary.
- 3.2 that we understand and agree that the *Owner* is in no way obligated to accept this Tender.

WE CONFIRM:

- 4.1 that the following appendices are attached to and form a part of this tender:

Tenderer's Initials _____

- 4.1.1 the appendices as required by paragraph 5.3 of the Instructions to Tenderers – Part II; and
- 4.1.2 the *Bid Security* as required by paragraph 5.2 of the Instructions to Tenderers – Part II.
- 4.1.3 the *Consent of Security* - Performance, Labour and Materials Payment filled and signed.

WE AGREE:

- 5.1 that this tender will be irrevocable and open for acceptance by the *Owner* for a period of 60 calendar days from the day following the *Tender Closing Date and Time*, even if the tender of another tenderer is accepted by the *Owner*. If within this period the *Owner* delivers a written notice ("*Notice of Award*") by which the *Owner* accepts our tender we will:
 - 5.1.1 within 10 *Days* of receipt of the written *Notice of Award* deliver to the *Owner*:
 - 1. a Performance Bond and a Labour and Material Payment Bond, each in the amount of 50% of the Contract Price, covering the performance of the Work including the Contractor's obligations during the Maintenance Period, issued by a surety licensed to carry on the business of suretyship in the province of British Columbia, and in a form acceptable to the *Owner*;
 - 2. a Baseline Construction Schedule, as provided by GC 4.6.1;
 - 3. a "clearance letter" indicating that the tenderer is in Worksafe BC compliance; and
 - 4. a copy of the insurance policies as specified in GC 24 indicating that all such insurance coverage is in place and;
 - 5.1.2 within 2 *Days* of receipt of written "*Notice to Proceed*", or such longer time as may be otherwise specified in the *Notice to Proceed*, commence the *Work*; and
 - 5.1.3 sign the Contract Documents as required by GC 2.1.2.

WE AGREE:

- 6.1 that, if we receive written *Notice of Award* of this *Contract* and, contrary to paragraph 5 of this Form of Tender, we:
 - 6.1.1 fail or refuse to deliver the documents as specified by paragraph 5.1.1 of this Form of Tender; or
 - 6.1.2 fail or refuse to commence the *Work* as required by the *Notice to Proceed*, then such failure or refusal will be deemed to be a refusal by us to enter into the *Contract* and the *Owner* may, on written notice to us, award the *Contract* to another party. We further agree that, as full compensation on account of damages suffered by the *Owner* because of such failure or refusal, the *Bid*

Tenderer's Initials_____

Security shall be forfeited to the *Owner*, in an amount equal to the lesser of:

6.1.3 the face value of the *Bid Security*; and

6.1.4 the amount by which our *Tender Price* is less than the amount for which the *Owner* contracts with another party to perform the *Work*.

**OUR ADDRESS IS AS
FOLLOWS:**

Phone: _____
Fax: _____
Email: _____
Attention: _____

This Tender is executed this _____ day of _____, 2025

Contractor:

(FULL LEGAL NAME OF CORPORATION, PARTNERSHIP OR INDIVIDUAL)

(AUTHORIZED SIGNATORY)

(AUTHORIZED SIGNATORY)

Tenderer's Initials _____

SCHEDULE OF QUANTITIES AND PRICES - SUMMARY
(See paragraph 5.3.1 of the Instructions to Tender - Part II)

(All prices *Quotations* including the *Contract Price* shall include all *Taxes* , but shall not include *GST* . *GST* shall be shown separately.) 'S' Payment item in Supplementary Specifications

Item	Description	Amount
1.0	Lorimer Road - Crapapple Drive to Piccolo Road	
2.0	Blackcomb Way - Glacier Drive to Bridge	
3.0	Blackcomb Way Northbound (Between Sundial and Pan Pacific Roundabout)	
4.0	Blackcomb Way Northbound (Chateau to Bus Stop)	
5.0	Valley Trail - Alpha lake dog park to Lake Placid Rd - 450m	
6.0	Overexcavation (OPTIONAL)	
7.0	Hand Laid Asphalt MMCD Upper Course #2 (OPTIONAL)	
TENDER SUBTOTAL		
GST(5%)		
TENDER PRICE plus GST		

Tenderer's Initials_____

1.0 Lorimer Road - Crapapple Drive to Piccolo Road

ITEM NO.	MMCD REF.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
		MMCD 03 30 20 - CONCRETE WALKS, CURBS AND GUTTERS				
1.01	03 30 20 1.4.3	Concrete Rollover Curb	Linear Metre	8		
		MMCD 31 22 16 - RESHAPING GRANULAR ROADBED				
1.02	31 22 16S 1.4.1S	Reshaping	Square Metre	4600		
		MMCD 31 24 13 - ROADWAY EXCAVATION, EMBANKMENT AND COMPACTION				
1.03	31 24 13 1.10.10	Over Excavation 0.3m Depth c/w Offsite Disposal, Backfilling and Compaction (Optional)	Cubic Metre	30		
		MMCD 32 11 23 - GRANULAR BASE				
1.04	32 11 23 1.4.1	19mm minus Granular Base - variable thickness includes placement, grading and compaction (Optional)	Tonne	760		
1.05	32 11 23 1.4.1	Granular Shouldering - 1.0m wide, variable thickness includes placement, grading and compaction (Optional)	Lin. M.	1000		
		MMCD 32 01 16.7 - COLD MILLING				
1.06	32 01 16.7S 1.5.1S 1.5.1.3S	Full Depth Milling	Square Metre	4600		
		MMCD 32 12 13.1 - ASPHALT TACK COAT				
1.07	32 12 13.1 1.5.1	Asphalt Tack Coat	Square Metre	4600		
		MMCD 32 12 16 - HOT-MIX ASPHALT CONCRETE PAVING				
1.08	32 12 16 1.5.1	Remove and Replace 80mm Raised Asphalt Crosswalk as per RMOW Standard detail R3	Lump Sum	2		
1.09	32 12 16 1.5.1	Machine Laid MMCD Lower Course #1 - 50 mm	Tonne	570		
1.10	32 12 16 1.5.1	Machine Laid MMCD Upper Course #1 - 50 mm	Tonne	570		
Note:		Including 2 x speed bumps and swale/scupper				

2.0 Blackcomb Way - Glacier Drive to Bridge

ITEM NO.	MMCD REF.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
		MMCD 31 22 16 - RESHAPING GRANULAR ROADBED				
2.01	31 22 16S 1.4.1S	Reshaping	Square Metre	1100		
		MMCD 32 11 23 - GRANULAR BASE				
2.02	32 11 23 1.4.1	19mm minus Granular Base - variable thickness includes placement, grading and compaction (Optional)	Tonne	165		
		MMCD 32 01 16.7 - COLD MILLING				
2.03	32 01 16.7S 1.5.1S 1.5.1.3S	Full Depth Milling	Square Metre	1100		
		MMCD 32 12 13.1 - ASPHALT TACK COAT				
2.04	32 12 13.1 1.5.1	Asphalt Tack Coat	Square Metre	1100		
		MMCD 32 12 16 - HOT-MIX ASPHALT CONCRETE PAVING				
2.05	32 12 16 1.5.1	Machine Laid MMCD Lower Course #1 - 50 mm	Tonne	140		
2.06	32 12 16 1.5.1	Machine Laid MMCD Upper Course #1 - 50 mm	Tonne	140		
Note:						

3.0 Blackcomb Way Northbound (Between Sundial and Pan Pacific Roundabout)

ITEM NO.	MMCD REF.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
		MMCD 32 01 16.7 – COLD MILLING				
3.01	32 01 16.7S 1.5.1S 1.5.1.3S	Milling 50mm Thickness	Square Metre	130		
		MMCD 32 12 13.1 – ASPHALT TACK COAT				
3.02	32 12 13.1 1.5.1	Asphalt Tack Coat	Square Metre	130		
		MMCD 32 12 16 – HOT-MIX ASPHALT CONCRETE PAVING				
3.03	32 12 16 1.5.1	Machine Laid MMCD Upper Course #1 - 50 mm	Tonne	20		
Note:						

4.0 Blackcomb Way Northbound (Chateau to Bus Stop)

ITEM NO.	MMCD REF.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
		MMCD 32 01 16.7 – COLD MILLING				
4.01	32 01 16.7S 1.5.1S 1.5.1.3S	Milling 50mm Thickness	Square Metre	555		
		MMCD 32 12 13.1 – ASPHALT TACK COAT				
4.02	32 12 13.1 1.5.1	Asphalt Tack Coat	Square Metre	555		
		MMCD 32 12 16 – HOT-MIX ASPHALT CONCRETE PAVING				
4.03	32 12 16 1.5.1	Machine Laid MMCD Upper Course #1 - 50 mm	Tonne	70		
Note:						

5.0 Valley Trail - Alpha lake dog park to Lake Placid Rd - 450m

ITEM NO.	MMCD REF.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
		MMCD 31 22 16 - RESHAPING GRANULAR ROADBED				
5.01	31 22 16S 1.4.1S	Reshaping	Square Metre	1380		
		MMCD 31 24 13 - ROADWAY EXCAVATION, EMBANKMENT AND COMPACTION				
5.02	31 24 13 1.8.5.6S	Asphalt Removal (up to 100mm asphalt thickness)	Square Metre	1380		
		MMCD 32 11 23 – GRANULAR BASE				
5.03	32 11 23 1.4.1	19mm minus Granular Base - variable thickness includes placement, grading and compaction	Tonne	80		
5.04	32 11 23S 1.4.5S	19mm minus crushed granite shouldering - 0.6m width x 75mm thickness includes placement, grading and compaction	Tonne	95		
		MMCD 32 12 16 – HOT-MIX ASPHALT CONCRETE PAVING				
5.05	32 12 16 1.5.1	Machine Laid MMCD Upper Course #1 - 75mm	Tonne	90		
Note:						

Optional Items

6.0 Overexcavation (OPTIONAL)

ITEM NO.	MMCD REF.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
		MMCD 31 24 13 - ROADWAY EXCAVATION, EMBANKMENT AND COMPACTION				
6.01	31 24 13S 1.8.14S	Overexcavation "unsuitable material", Off Site Disposal c/w crushed granular base backfill	Cubic Metre	100		

7.0 Hand Laid Asphalt MMCD Upper Course #2 (OPTIONAL)

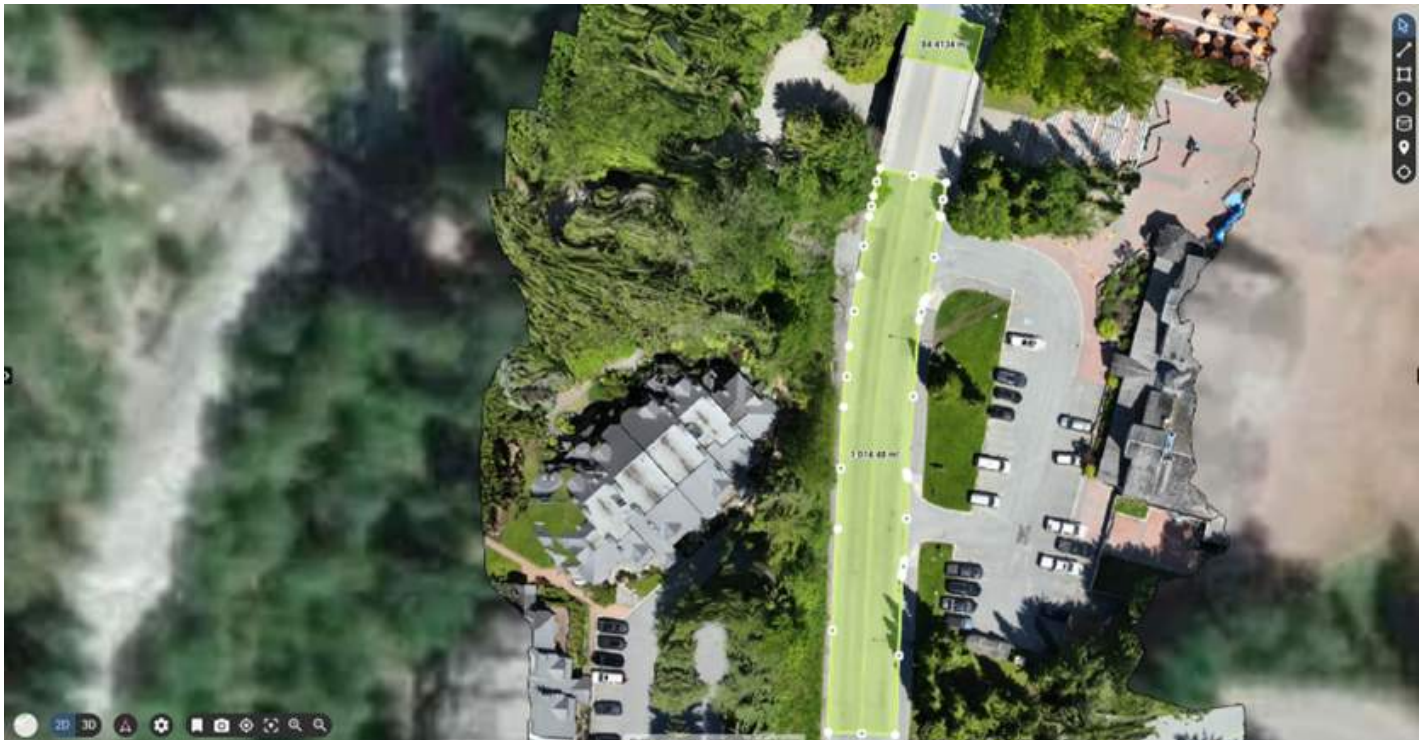
ITEM NO.	MMCD REF.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
		MMCD 32 12 16 - HOT-MIX ASPHALT CONCRETE PAVING				
7.01	32 12 16 1.5.1	Single Lift, 75mm thickness up to 1,000m ²	Tonne	100		
7.02	32 12 16 1.5.1	Single Lift, 75mm thickness over 1,000m ²	Tonne	100		

Tenderer's Initials _____

1.0 LORIMER ROAD - CRABAPPLE DRIVE TO PICCOLO ROAD



2.0 BLACKCOMB WAY - GLACIER DRIVE TO BRIDGE



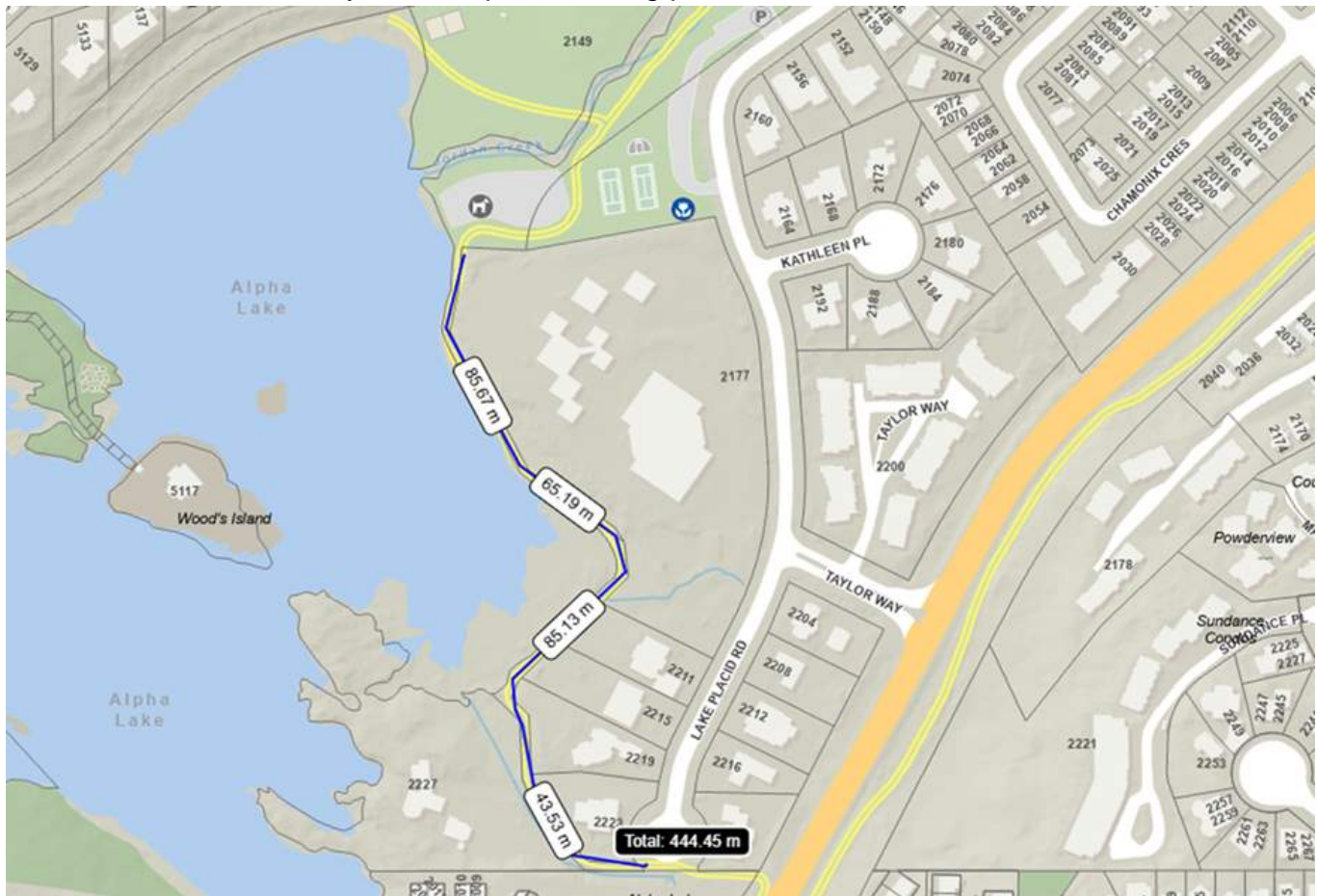
3.0 Blackcomb Way Northbound (Between Sundial and Pan Pacific Roundabout)



4.0 Blackcomb Way Northbound (Chateau to Bus Stop)



5.0 Valley Trail - Alpha lake dog park to Lake Placid Rd - 450m



Tenderer's Initials

APPENDIX 3
EXPERIENCE OF SUPERINTENDENT

See paragraph 5.3.3 of the Instructions to Tenderers – Part II.

Owner: Resort Municipality of Whistler
(NAME OF OWNER)

Contract: RMOW 2025 Road and Trail Reconstruction
(TITLE OF CONTRACT)

Reference No. T00102
(OWNER'S CONTRACT REFERENCE NO.)

Name: _____

Experience: _____

Dates: _____

Project Name: _____

Responsibility: _____

References: _____

Dates: _____

Project Name: _____

Responsibility: _____

References: _____

Dates: _____

Project Name: _____

Responsibility: _____

References: _____

Dates: _____

Project Name: _____

Responsibility: _____

References: _____

Tenderer's Initials _____

APPENDIX 4
COMPARABLE WORK EXPERIENCE

See paragraph 5.3.4 of the Instructions to Tenderers – Part II.

Owner: Resort Municipality of Whistler
(NAME OF OWNER)

Contract: RMOW 2025 Road and Trail Reconstruction
(TITLE OF CONTRACT)

Reference No. T00102
(OWNER'S CONTRACT REFERENCE NO.)

PROJECT	OWNER / CONTACT NAME PHONE and FAX	WORK DESCRIPTION	VALUE (\$)
	Owner / Contract _____ Email _____ Phone () Fax ()		
	Owner / Contract _____ Email _____ Phone () Fax ()		
	Owner / Contract _____ Email _____ Phone () Fax ()		
	Owner / Contract _____ Email _____ Phone () Fax ()		
	Owner / Contract _____ Email _____ Phone () Fax ()		
	Owner / Contract _____ Email _____ Phone () Fax ()		
	Owner / Contract _____ Email _____ Phone () Fax ()		
	Owner / Contract _____ Email _____ Phone () Fax ()		
	Owner / Contract _____ Email _____ Phone () Fax ()		

Tenderer's Initials _____

Tenderer's Initials_____

(FOR USE WHEN UNIT PRICES FORM THE BASIS OF PAYMENT TO BE USED ONLY WITH THE GENERAL CONDITIONS AND
OTHER STANDARD DOCUMENTS OF THE UNIT PRICE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS.)

BETWEEN OWNER AND CONTRACTOR

This agreement made in duplicate this
_____ day of _____, 2025.

Owner: Resort Municipality of Whistler
(NAME OF OWNER)

Contract: RMOW 2025 Road and Trail Reconstruction
(TITLE OF CONTRACT)

Reference No. T00102
(OWNER'S CONTRACT REFERENCE NO.)

BETWEEN:

The Resort Municipality of Whistler
(NAME OF OWNER)
(the "Owner")

AND:

(NAME AND OFFICE ADDRESS OF CONTRACTOR)
(the "Contractor")

The Owner and the Contractor agree as follows:

- | | | | |
|------------------|--|-----|---|
| Article 1 | The Work Start / Completion Dates | 1.1 | The <i>Contractor</i> will perform all <i>Work</i> and provide all labour, equipment and material and do all things strictly as required by the <i>Contract Documents</i> . |
| | | 1.2 | The <i>Contractor</i> will commence the <i>Work</i> in accordance with the <i>Notice to Proceed</i> . The <i>Contractor</i> will proceed with the <i>Work</i> diligently, will perform the <i>Work</i> generally in accordance with the construction schedules as required by the <i>Contract Documents</i> and will achieve <i>Substantial Performance</i> of the <i>Work</i> on or before September 30, 2025 for Form of Tender items 1.0, 2.0, 3.0, 4.0 and 5.0, subject to the provisions of the <i>Contract Documents</i> for adjustments to the <i>Contract Time</i> .
(INSERT DATE OF SUBSTANTIAL PERFORMANCE) |
| | | 1.3 | Time shall be of the essence of the <i>Contract</i> . |
| Article 2 | Contract Documents | 2.1 | The " <i>Contract Documents</i> " consist of the documents listed or referred to in Schedule 1, entitled "Schedule of Contract Documents", which is attached and forms a part of this Agreement, and includes any and all additional and amending documents issued in accordance with the provisions of the <i>Contract Documents</i> . All of the <i>Contract Documents</i> shall constitute the entire <i>Contract</i> between the <i>Owner</i> and the <i>Contractor</i> . |

	2.2	The <i>Contract</i> supersedes all prior negotiations, representations or agreements, whether written or oral, and the <i>Contract</i> may be amended only in strict accordance with the provisions of the <i>Contract Documents</i> .
Article 3 Contract Price	3.1	The price for the <i>Work</i> (" <i>Contract Price</i> ") shall be the sum in Canadian dollars of the following: <ul style="list-style-type: none">1.1.1 the product of the actual quantities of the items of <i>Work</i> listed in the <i>Schedule of Quantities and Prices</i> which are incorporated into or made necessary by the <i>Work</i> and the unit prices listed in the <i>Schedule of Quantities and Prices</i>; plus1.1.2 all lump sums, if any, as listed in the <i>Schedule of Quantities and Prices</i>, for items relating to or incorporated into the <i>Work</i>; plus1.1.3 any adjustments, including any payments owing on account of <i>Changes</i> and agreed to <i>Extra Work</i>, approved in accordance with the provisions of the <i>Contract Documents</i>.
	3.2	The <i>Contract Price</i> shall be the entire compensation owing to the <i>Contractor</i> for the <i>Work</i> and this compensation shall cover and include all profit and all costs of supervision, labour, material, equipment, overhead, financing, and all other costs and expenses whatsoever incurred in performing the <i>Work</i> .
Article 4 Payment	4.1	Subject to applicable legislation and the provisions of the <i>Contract Documents</i> , the <i>Owner</i> shall make payments to the <i>Contractor</i> .
	4.2	If the <i>Owner</i> fails to make payments to the <i>Contractor</i> as they become due in accordance with the terms of the <i>Contract Documents</i> then interest calculated at 2% per annum over the prime commercial lending rate of the Royal Bank of Canada on such unpaid amounts shall also become due and payable until payment. Such interest shall be calculated and added to any unpaid amounts monthly.
Article 5 Rights and Remedies	5.1	The duties and obligations imposed by the <i>Contract Documents</i> and the rights and remedies available thereunder shall be in addition to and not a limitation of any duties, obligations, rights and remedies otherwise imposed or available by law.
	5.2	Except as specifically set out in the <i>Contract Documents</i> , no action or failure to act by the <i>Owner</i> , <i>Contract Administrator</i> or <i>Contractor</i> shall constitute a waiver of any of the parties' rights or duties afforded under the <i>Contract</i> , nor shall any such action or failure to act constitute an approval of or acquiescence in any breach under the <i>Contract</i> .
Article 6 Notices		Communications among the <i>Owner</i> , the <i>Contract Administrator</i> and the <i>Contractor</i> , including all written notices required by the

Contract Documents, may be delivered by hand, or by email, or by fax, or by pre-paid registered mail to the addresses as set out below:

The *Owner*:

Resort Municipality of Whistler

Municipal Hall

4325 Blackcomb Way

Whistler BC, V8E 0X5

Fax: n/a

Email: croberts@whistler.ca

Attention: Chelsey Roberts, Manager of Infrastructure Projects

The *Contractor*:

Fax:

Email:

Attention:

The *Contract Administrator*:

ISL Engineering and Land Services Ltd.

200, 39470 Queens Way

Squamish BC, V8B 0Z5

Fax: 604-815-4647

Email: gschulz@islengineering.com

Attention: Graham Schulz, P.Eng., Contract Administrator

- 6.2 A communication or notice that is addressed as above shall be considered to have been received
- 1.1.4 immediately upon delivery, if delivered by hand; or
- 1.1.5 at the date and time as shown in the recipients inbox; or
- 1.1.6 immediately upon transmission if sent by fax and received in hard copy; or
- 1.1.7 after 5 *Days* from date of posting if sent by registered mail.
- 6.3 The *Owner* or the *Contractor* may, at any time, change its address for notice by giving written notice to the other at the address then applicable. Similarly if the *Contract Administrator* changes its address for notice then the *Owner* will give or cause to be given written notice to the *Contractor*.
- 6.4 The sender of a notice by fax or email assumes all risk that the fax or email is received.

Article 7 General

- 7.1 This *Contract* shall be construed according to the laws of British Columbia.
- 7.2 The *Contractor* shall not, without the express written consent of the *Owner*, assign this *Contract*, or any portion of this *Contract*.
- 7.3 The headings included in the *Contract Documents* are for convenience only and do not form part of this *Contract* and will not be used to interpret, define or limit the scope or intent of this *Contract* or any of the provisions of the *Contract Documents*.
- 7.4 A word in the *Contract Documents* in the singular includes the plural and, in each case, vice versa.
- 7.5 This agreement shall ensure to the benefit of and be binding upon the parties and their successors, executors, administrators and assigns.

IN WITNESS WHEREOF the parties hereto have executed this Agreement the day and year first written above.

Contractor:

(FULL LEGAL NAME OF CORPORATION, PARTNERSHIP OR INDIVIDUAL)

(AUTHORIZED SIGNATORY)

(AUTHORIZED SIGNATORY)

Owner:

(FULL LEGAL NAME OF CORPORATION, PARTNERSHIP OR INDIVIDUAL)

(AUTHORIZED SIGNATORY)

(AUTHORIZED SIGNATORY)

(INCLUDE IN LIST ALL DOCUMENTS INCLUDING, IF ANY, SUPPLEMENTARY GENERAL CONDITIONS, SUPPLEMENTARY SPECIFICATIONS, SUPPLEMENTARY STANDARD DETAIL DRAWINGS.)

**Schedule 1 Schedule of
Contract
Documents**

The following is an exact and complete list of the *Contract Documents*, as referred to in Article 2.1 of the Agreement.

NOTE: The documents noted with “*” are contained in the “Master Municipal Construction Documents - General Conditions, Specifications and Standard Detail Drawings”, edition dated Platinum Edition, 2009. All sections of this publication are included in the *Contract Documents*.

- 8.1 Agreement, including all Schedules;
- 8.2 Supplementary General Conditions (for MMCD Volume II, Platinum Edition, 2009);
- 8.3 General Conditions*;
- 8.4 Supplementary Specifications (for MMCD Volume II, Platinum Edition, 2009);
- 8.5 Specifications*;
- 8.6 Supplementary Standard Detail Drawings (if any, insert title and edition date);
- 8.7 Standard Detail Drawings*;
- 8.8 Executed Form of Tender, including all Appendices;
- 8.9 *Contract Drawings* listed in Schedule 2 to the Agreement, —“List of *Contract Drawings*”;
- 8.10 Instructions to Tenderers - Part I;
- 8.11 Instructions to Tenderers - Part II*;
- 8.12 The following Addenda:

(ADDENDA, IF ANY)

8.13 MMCD Supplementary Updates:

2022-04-07	2012-08-07
2021-04-23	2012-06-08
2020-08-04	2012-05-30
2016-11-18	2011-08-08
2015-11-02	2011-08-04
2014-09-19	PVC C900 Pipe Specification Clarification
2014-07-15	2010-05-18
2014-02-28	2010-03-25
2013-06-13	2009-11-19

As provided on website as of tender closing date: www.mmcd.net

(COMPLETE LISTING OF ALL DRAWINGS, PLANS AND SKETCHES WHICH ARE TO FORM A PART OF THE CONTRACT,
OTHER THAN STANDARD DETAIL DRAWINGS AND SUPPLEMENTARY STANDARD DETAIL DRAWINGS.)

**Schedule 2 List of Contract
Drawings**

TITLE	DRAWING NO.	DATE	REVISION NO.	REVISION DATE
COVER SHEET	33763-0	March 21, 2025	1	March 21, 2025
GENERAL NOTES & DETAILS	33763-1	March 21, 2025	1	March 21, 2025
ROAD SITE PLAN	33763-2	March 21, 2025	1	March 21, 2025
TRAIL SITE PLAN	33763-3	March 21, 2025	1	March 21, 2025
SEGMENT MANAGEMENT PLAN	33763-4	March 21, 2025	1	March 21, 2025

Supplementary Specifications

These Supplementary Specifications must be read in conjunction with the Master Municipal Specifications contained in the Master Municipal Construction Documents, Volume II, Platinum Edition 2009.

Reference No.

SUPPLEMENTARY SPECIFICATIONS INDEX

DIVISION 01 – GENERAL REQUIREMENT

- 01 01 01SW General Requirements
- 01 55 00S Traffic Control, Vehicle Access and Parking
- 01 57 01S Environmental Protection

DIVISION 31 – EARTHWORKS

- 31 05 17S Aggregate and Granular Materials
- 31 15 60S Dust Control
- 31 22 16S Reshaping Granular Roadbeds
- 31 23 01S Excavating, Trenching and Backfilling
- 31 24 13S Roadway Excavation, Embankment and Compaction

DIVISION 32 – ROADS AND SITE IMPROVEMENTS

- 32 01 16.7S Cold Milling
- 32 11 23S Granular Base
- 32 12 16S Hot-Mix Asphalt Concrete Paving

- | | | | | | | | | | | | | | | | | | |
|------------|---|-----|---|-----|--|-----|---|-----|---|-----|--|-----|---|-----|---------------------------|-----|---|
| 1.0 | Master Municipal Construction Documents | .1S | The Supplementary Specifications contained herein must be read in conjunction with the Master Municipal Specifications contained in the Master Municipal Construction Documents, Volume II (Platinum Edition 2009) as identified in the Instructions to Tender article 2.2. | | | | | | | | | | | | | | |
| 2.0 | Format and Numbering System | .1S | The Supplementary Contract Specifications follow the same format and numbering system as the Master Municipal Specifications, but is differentiated from it by having the letter "S" placed after the section number. | | | | | | | | | | | | | | |
| 3.0 | Construction Survey Layout | .1S | The Contractor shall be responsible for the detailed setting out of the work. No record drawings are required as part of these works. | | | | | | | | | | | | | | |
| | | .2S | Payment for survey layout shall be considered incidental to the work performed and no additional payment will be made to the contractor. | | | | | | | | | | | | | | |
| | | .3S | All monuments, including but not limited to brass caps, iron pins, lead plugs, rock posts and wooden witness posts, disturbed by the Contractor shall be re-established by Registered British Columbia Land Surveyors, at the Contractor's cost, and the appropriate authorities advised of the revised elevation and coordinates. Contractors are advised that the Contract Administrator will monitor construction to ensure that disturbed monuments are replaced at the Contractor's expense prior to completion of the Contract. | | | | | | | | | | | | | | |
| 4.0 | Description of Work | .1S | <p>The work can be divided into the following sites for ease of description:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;">1.0</td> <td>Lorimer Road – Crabapple Drive to Piccolo Road</td> </tr> <tr> <td style="text-align: center;">2.0</td> <td>Blackcomb Way – Glacier Drive to Bridge</td> </tr> <tr> <td style="text-align: center;">3.0</td> <td>Blackcomb Way Northbound (Between Sundial and Pan Pacific Roundabout)</td> </tr> <tr> <td style="text-align: center;">4.0</td> <td>Blackcomb Way Northbound (Chateau to Bus Stop)</td> </tr> <tr> <td style="text-align: center;">5.0</td> <td>Valley Trail – Alpha Lake Dog Park to Lake Placid Road (450m)</td> </tr> <tr> <td style="text-align: center;">6.0</td> <td>Overexcavation (OPTIONAL)</td> </tr> <tr> <td style="text-align: center;">7.0</td> <td>Hand Laid Asphalt MMCD Upper Course #2 (OPTIONAL)</td> </tr> </table> | 1.0 | Lorimer Road – Crabapple Drive to Piccolo Road | 2.0 | Blackcomb Way – Glacier Drive to Bridge | 3.0 | Blackcomb Way Northbound (Between Sundial and Pan Pacific Roundabout) | 4.0 | Blackcomb Way Northbound (Chateau to Bus Stop) | 5.0 | Valley Trail – Alpha Lake Dog Park to Lake Placid Road (450m) | 6.0 | Overexcavation (OPTIONAL) | 7.0 | Hand Laid Asphalt MMCD Upper Course #2 (OPTIONAL) |
| 1.0 | Lorimer Road – Crabapple Drive to Piccolo Road | | | | | | | | | | | | | | | | |
| 2.0 | Blackcomb Way – Glacier Drive to Bridge | | | | | | | | | | | | | | | | |
| 3.0 | Blackcomb Way Northbound (Between Sundial and Pan Pacific Roundabout) | | | | | | | | | | | | | | | | |
| 4.0 | Blackcomb Way Northbound (Chateau to Bus Stop) | | | | | | | | | | | | | | | | |
| 5.0 | Valley Trail – Alpha Lake Dog Park to Lake Placid Road (450m) | | | | | | | | | | | | | | | | |
| 6.0 | Overexcavation (OPTIONAL) | | | | | | | | | | | | | | | | |
| 7.0 | Hand Laid Asphalt MMCD Upper Course #2 (OPTIONAL) | | | | | | | | | | | | | | | | |
| 5.0 | Safety Procedures | .1S | The Contractor shall be responsible for meeting all WorkSafeBC regulations. | | | | | | | | | | | | | | |
| 6.0 | Optional Work | .1 | All items included in the Schedule of Quantities and Prices which shall be stated to be Optional Work shall be used only as directed and at the sole discretion of the Contract Administrator. All or any unused portion of these sums shall | | | | | | | | | | | | | | |

revert to the Municipality and shall be deducted from the Contract Price before final payment is made.

7.0	Dust and Mud Control	.1	<p>The Contractor shall make every reasonable effort to minimize the creation of dust or mud by his operations. Special measures may include, but shall not be limited to, frequent sweeping of existing roads used as haul routes; control of traffic speeds; frequent watering of dirt access and egress routes; watering of the construction areas; re-routing of traffic; and modification of construction procedures; and cleaning of off-site haul routes on a regular basis as required by the Municipality. Refer to MMCD Section 31 15 60, Dust Control, for General, Products and Execution.</p> <p>Payment for the above items will be considered to be incidental to the work performed and no additional payment will be made to the Contractor.</p>
8.0	Safety - Work Near Overhead and Underground Power Lines or Other Utilities	.1S	<p>All works shall be in strict compliance with WorkSafe BC Industrial and Safety Regulations Section 24 when working near or under any overhead power lines.</p> <p>The Contractor must be fully aware of the danger to workers and shall take all necessary safety precautions when working near to existing utilities, such as high pressure gas, water line and BC Hydro lines.</p>
9.0	Materials Testing	.1S	<p>Materials and density Quality Assurance (QA) testing will be carried out as directed by the Contract Administrator. Initial QA testing carried out at the Contract Administrator's direction will be paid for by the Municipality. Where initial tests fail and subsequent QA testing is deemed necessary by the Contract Administrator, the cost of the subsequent testing shall be the responsibility of the Contractor.</p> <p>If the Contractor requests QA testing and upon arrival of the Municipality appointed testing agency, the contractor is not ready to conduct testing, any cost associated with the delay of testing i.e. standby or return trips will revert back to the Contractor.</p> <p>The Contractor will perform Quality Control inspections at the Contractors discretion to ensure that the requirements of the Contract are being met.</p>
10.0	Grassed Areas Disturbed to be Seeded or sodded	.1S	<p>All grassed areas disturbed within the rural and urban areas by the construction shall be reinstated with 100mm compacted depth topsoil and hydroseeded.</p> <p>No additional payment will be made to the Contractor for this work.</p>

11.0	Curb, Sidewalk and Driveway Restoration	.1S	<p>Existing curbs, sidewalks and driveways shall be reconstructed and reinstated to ensure proper drainage and appearance, to match existing finish, and in accordance with the Standard Drawings. All concrete curbs, sidewalks and driveways shall be 32 MPa strength concrete. Concrete curb and gutter to be reinstated between control joints. Concrete sidewalk and driveways to be reinstated to nearest panel joint for one complete panel.</p> <p>No additional payment will be made to the Contractor for this work.</p>
12.0	Interfering Services	.1	<p>.1S The Contractor shall, at his own expense, provide for the uninterrupted flow of all watercourses, sewers, drains, and any other utility encountered during the work.</p> <p>.2S When other utility structures are encountered, the Contractor shall support them to the satisfaction of the Contract Administrator so as to protect them from damage. The Contractor shall, at his own expense, at once repair and make good any damage which may occur to any watermains, service or utility pipes, or facilities, or to any electrical conductor or telephone facility or to any sidewalk, crosswalk as a result of this operation.</p> <p>.3S It is the Contractor's responsibility wherever necessary to determine location of existing pipes, valves, or other underground structures. Wherever it is necessary to explore and excavate to determine the location of the existing underground structures, the Contractor at his own expense shall make explorations and excavations for such purposes.</p> <p>.4S Where gas mains and/or service lines exist in the vicinity of the proposed work, the Contractor shall consult the officers of the gas company prior to commencing operations and arrange for a mutually agreeable procedure for their protection.</p> <p>.5S When existing poles conflict with the proposed works, the Contractor shall consult B.C. Hydro and Telus prior to commencing operations and advise the Contract Administrator with the works to be undertaken.</p> <p>Costs associated with pole holding / support are incidental to the work.</p>
13.0	Temporary Road Markings	.1	<p>The Contractor shall supply and place temporary traffic lane lines and stop bars immediately following compaction of the asphalt pavement. The traffic lane line shall be a 100mm x 500mm strip of prefabricated reflective yellow tape having</p>

an adhesive backing and shall be placed at 8m intervals along the centre of pavement. The stop bar shall be minimum two — 100mm wide continuous strips of prefabricated reflecting white tape having an adhesive backing and placed across the travel lanes at traffic controlled intersections.

Permanent road marking are not required under this contract.

14.0 Coordination with Other Contractors/Construction Staging .1S The Contractor will be responsible for all coordination with BC Hydro and other utility providers.

15.0 Environmental Protection and Construction Mitigation Plan .1S **AN Environmental Management Plan (Appendix B) has been prepared for this project and is appended to form as part of this tender. The Contractor shall be advised that they are responsible for all necessary measures and are required to adhere to the responsibilities as defined in the EMP. All requirements unless explicitly described in the schedule of quantities required by the EMP are considered incidental to the work.**

The Contractor is advised that he is responsible for all necessary measures required to prevent the transportation of any silt or other deleterious material from the site into any fish bearing watercourses or their tributaries. All requirements of the Ministry of Environment, Lands and Parks, Fish and Wildlife Branch and Fisheries & Oceans Canada, with respect to air, earth and water pollution, must be strictly adhered to.

Refer to Section 01 57 01S Environmental Protection for further information. If there are any discrepancies between this section and Section 01 57 01S, then 01 57 01S will govern.

16.0 Metric Units of Measurement .1S All the units of measurement for payment in this Contract are metric units as modified by the internationally agreed S.I. Units (System International).

However, as the construction industry is not entirely converted to S.I. Units, some conversions will need to be made for purpose of month end and Final Progress Estimates.

The following conversion factors will be used in this Contract:

1 ton	=	0.907 tonnes
1 cubic yard	=	0.765 cubic metres
1 foot	=	0.3048 metres

17.0	Weigh Ticket Control	.1S	<p>Items in the Schedule of Quantities and Prices measured by weight will be paid for as stipulated in the appropriate section of the Specific Provisions or the Specifications of the Contract. In addition, the Contractor will adhere to the following conditions:</p> <p>.1S Payment will be made only for material completely incorporated into the works as witnessed by the Contract Administrator's representative.</p> <p>.2S Weigh tickets shall be received by the Contract Administrator's representative immediately prior to the placement of the material in the works.</p> <p>.3S The Contractor is to arrange for material supply in such a manner that weigh tickets can be collected and verified at specific locations on the project as arranged with and approved by the Contract Administrator.</p> <p>.4S The Contract Administrator shall have the right to refuse approval of tickets received after the day of placement.</p> <p>If the Contractor fails to meet any of these conditions, then the Contract Administrator shall have the right to refuse approval of weigh tickets presented.</p>
18.0	Disposal Site	.1S	<p>The Contractor is responsible for the provision of all off-site disposal sites for materials that are to be removed from the construction sites in this Contract.</p> <p>The Contractor is responsible for all fees, permits and costs associated with the off-site disposal of materials.</p> <p>If materials are disposed of within the Resort Municipality of Whistler, it must be an approved site.</p>
19.0	Permits from Outside Agencies	.1S	<p>The Contractor is responsible to obtain and pay for all permits required from outside agencies.</p>
20.0	Temporary Drainage Facilities	.1S	<p>All required temporary drainage facilities, measures for control of ground water during construction and restoration of temporary drainage ditches after construction shall be considered as incidental to work being performed under this Contract and no separate payment will be made for this work.</p>
21.0	Notice to Residents	.1S	<p>Deliver a letter written by the Resort Municipality of Whistler to all properties which may be affected by construction not less than one week (5 days) and not more than two weeks (10 days) prior to construction.</p>

Notify residents directly affected by the work 72 hours in advance of commencement of construction.

Cost of notifying residents of ensuring construction and delivery of letters is incidental to the Contract.

22.0	Weight Restriction	.1S	None.
23.0	Foreign Utility Adjustments	.1S	The Contractor will be responsible for adjusting all foreign utilities, unless noted otherwise on the drawings. All adjustments to foreign utilities must be completed to the satisfaction of the Utility Owner. The Contractor should note that certain Utility Owners may decide, after tender closing, to complete their own adjustments if personnel are available. If the Utility Owner decides to complete their own adjustments, the Contractor will not be compensated for these utility adjustments.
24.0	Material Supply	.1S	The Municipality will not supply materials.
25.0	Geotechnical Information	.1S	A geotechnical report has been prepared for this project and is included in Appendix A. The contractor is responsible for ensuring they are familiar with the report and that the work done by the Contractor will consider the findings and procedures stated in the report.
26.0	Site offices	.1S	<i>(amend clause 1.12.1 as follows)</i> A Contract Administrator's temporary office will not be required for this project.
27.0	Construction Signage	.1S	<i>(amend clause 1.13.1 as follows)</i> Construction project signs will be required for this project at a minimum at either end of each site. No additional payment will be made to the contractor to supply, erect and remove these signs.
28.0	Event Closures	.1S	The Contractor shall be made aware of any events that are scheduled during the anticipated construction period of the project. At all times, the Contractor is to ensure that the place of construction is left in a safe condition when not onsite. However, the Contractor is to pay particular attention to ensuring safe demarcation of the construction site during scheduled events. For all events, all trench excavations that cross the roadway shall be finished with asphalt and not left with exposed granular material. All streets shall be swept on the final day or work prior to weekends with scheduled

events (in addition to street cleaning requirements from the Contract).

END OF SECTION

1.0	General	.3S	<p>Delete 1.0.3 and replace with:</p> <p>"Unless alternative arrangements satisfactory to those adversely affected have been made by the Contractor, pedestrian and vehicular access to affected properties shall be maintained at all times.</p>
1.2	Temporary Access Roads	.2S	<p>.1 Delete and replace with:</p> <p>"Do not close any lanes of road or highway without approval of the Owner. Before re-routing traffic erect suitable signs and devices as approved by the Contract Administrator. Provide sufficient asphalt to ensure a smooth riding surface during work."</p>
1.4	Traffic Control	.1S	<p>(add)</p> <p>The Contractor is responsible for all temporary traffic control on the streets within this contract. The Contractor will meet all the standards and conditions of the Resort Municipality of Whistler, and the Ministry of Transportation and Highways Traffic Control Manual for Work on Roadways.</p> <p>The Municipality will not control or direct the traffic control or direct the traffic control activities of the Contractor, but may require an immediate stop to any work where, in the Contract Administrator's opinion, the provided traffic control does not meet the requirements of the Agreement.</p> <p>Contrary to the Traffic Management Guidelines for Works on Roadways, the traffic management plan does not require a professional engineering seal.</p> <p>The Contractor will prepare and submit a written Traffic Management Plan to the Resort Municipality of Whistler a minimum of ten (10) working days prior to commencement of any work affecting traffic. The Contractor will update and resubmit that plan for review as necessary for acceptance by the Municipality.</p> <p>A traffic management plan will be required for work for all of the project locations.</p> <p>Traffic control is incidental to the work.</p> <p>.3S Delete 1.4.3 and replace with:</p> <p>"Supply and erect sign, delineators, barricades and miscellaneous warning devices as specified in the Ministry of Transportation and Highways publication 'Traffic Control</p>

Manual for Work on Roadways'."

.10 .1S Delete 1.4.10.1 and replace pre-amble with:

" Provide flag persons, who have written proof of having received Traffic Control Persons Training approved by the Workers Compensation Board and who are properly equipped for the following situations:..."

END OF SECTION

1.2 Drainage

.1.1S *Delete 1.2.1.1 and replace with:*

Drainage, Erosion and Sediment Control

“Properly drain all portions of the site. Protect the site and the watercourses to which it drains, directly or indirectly, against erosion and siltation in accordance with the Sediment Control Plan approved by the Owner during construction and until the maintenance period is completed. Ensure no silt, gravel, debris or other deleterious substance resulting from construction activity discharges into existing drainage systems or watercourses or onto highways or adjacent property. The Contractor is responsible for all damage that may be caused by water backing up or flowing over, through, from or along any part of the work or otherwise resulting from his operations.

“Keep existing culverts, drains, ditches and watercourses affected by the work clear of excavated material at all times. When it is necessary to remove or alter an existing drainage structure, provide suitable alternative measures for handling the drainage. Adequately support culverts and drainpipes across trenches to prevent displacement and interference with the proper flow of water due to trench settlement.

“Sweep streets, and clean catch basins, manhole sumps, detention tanks, and maintain siltation controls as often as the Contract Administrator deems necessary.

“Follow all Federal and Provincial regulations and guidelines respecting protection of fish, fish habitat, and watercourses.

“The Contract Administrator is responsible for monitoring ongoing compliance with this section.”

1.4 Pollution Control

.3 *(add clause 1.4.3.5S as follows)*

Immediately contain and clean up any leaks and spills of prohibited materials on the job site.

(add clause 1.4.3.6S as follows)

Ensure that a well-stocked spill kit is on-site at all times and that the Contractor's employees are familiar with appropriate spill response techniques.

(add clause 1.4.3.7S as follows)

Immediately notify the Contract Administrator and the Owner of any leaks or spills of prohibited materials that occur on the job site.

(add clause 1.4.3.8S as follows)

Ensure that any fuel stored on-site is located at least 15 metres from the nearest stream, and is placed within a bermed and lined area, in order to prevent leaks or spills into the environment

(add clause 1.4.3.9S as follows)

Ensure that no equipment fueling or servicing is conducted within 15 metres of a stream."

**1.9S Archaeological /
 Historical Resources**

(add)

Immediately cease work and inform the Contract Administrator and the Owner, if any archaeological or historical resources are encountered during construction. Leave these resources in-place and do not disturb them in any way."

END OF SECTION

**2.7 Granular Pipe Bedding
and Surround Material**

.1S ***Delete 2.7.1 and replace with:***

"Crushed or graded gravels to conform to the following gradations"

and replace with:

"Crushed or graded gravel to conform to Type 1 gradation as specified on chart in clause 2.7.1."

END OF SECTION

2.1 Materials

.7S ***Add to clause:***

"Resin and Water: to Contract Administrator's approval."

.8S ***Add to clause:***

"All Dust Control materials to be environmentally friendly."

END OF SECTION

- | | | | |
|-----|------------------------------------|-----|---|
| 1.4 | Measurement and
Payment | .1S | <i>Delete 1.4.1 and replace with:</i>

“Payment for reshaping existing roadbed, driveway and
shoulder includes all spreading and grading of materials,
adjustment of moisture content, compaction and disposal of
excess material.” |
|-----|------------------------------------|-----|---|

END OF SECTION

1.8	Measurement and Payment	.5	.6S Add: Payment made per square meter based on maximum 100mm asphalt thickness.
		.14S	Add: Payment for removal of unsuitable materials will be as over- excavation with offsite disposal and backfill with 19mm minus granular base gravel including finish grading, adjustment of moisture content and compaction as specified will, be per the Unit Bid Item in the Schedule of Units and Prices for over-excavation.

END OF SECTION

**1.5 Measurement for
Payment**

.1S *(delete and replace clause 1.5.1 as follows)*

Measurement for Cold Milling will be in square metres for each type of milling defined as herein. Payment will be made at the respective unit prices bid and will include mobilization, demobilization, street sweeping, off-site disposal to millings site as noted on contract drawings, clean up around existing utility manholes and valve covers, milling of pavement and underlying granular materials to desired depth as shown on the contract drawings and all other incidental work.

.1S Surface Milling

Variable depth milling used to create exposure at the curb line, to create tie-ins and to generally improve the shape and drainage profile of the road cross-section.

.2S Inlay Milling

Milling which varies in depth from 40 mm to 75 mm in selected areas.

.3S Full Depth Milling

Full depth removal of the entire asphaltic concrete pavement, which may vary in depth up to a maximum of 140 mm.

END OF SECTION

1.4 **Measurement for
Payment**

.5S ***Add:***

Payment includes the supply and placement of 3/8"
minus crushed granite shouldering as outlined in
Contract Drawings.

END OF SECTION

- | | | | |
|------|----------------------------|-----|---|
| 2.1 | Materials | .1S | <p>Delete 2.1.1 and replace with:
Asphalt cement: Grade 80 – 100A.</p> <ul style="list-style-type: none">• Should the contractor choose to use reclaimed asphalt pavement the resultant asphalt cement shall also meet or exceed Grade 80-100A |
| 2.3 | Alt. Materials | .1S | <p>Add clause 2.3.1S:
All asphalt to meet MMCD specifications per 32 12 16 - 2.0 unless otherwise previously approved in writing the Contract Administrator.</p> |
| 3.10 | Finished Tolerances | .5S | <p>Add clause 3.10.5S as follows:
The Contractor shall use grade control through the use of a three sensor boom to improve rideability. The Contractor shall check all manhole, water valve and third party utility boxes adjustments using string lines and ensure that all utilities match the road finished grade and crossfall. The Contractor shall ensure that rolling patterns and rolling practices shall be followed to improve rideability and prevent surface irregularities in the surface course. The Contractor shall make all efforts to ensure that lateral joint transitions and all cold joints are smooth with acceptable grade tolerances.</p> |
| 3.12 | Clean-Up | .2S | <p>Add clause 3.12.2S as follows:
All asphalt debris is to be power swept at the tie-ins, transfer areas and machine and truck clean up areas prior to leaving site on day of paving.</p> |

END OF SECTION

Owner: Resort Municipality of Whistler
(NAME OF OWNER)

Contract: RMOW 2025 Road and Trail Reconstruction
(TITLE OF CONTRACT)

Reference No. T00102
(OWNER'S CONTRACT REFERENCE NO.)

General Conditions #	Paragraph #	Title	Action
3.2	.2	Authority	Delete GC3.2.2 and replace with: "Nothing contained in the <i>Contract Documents</i> shall create any contractual relationship or other relationship recognized by law between the <i>Contract Administrator</i> and the <i>Contractor</i> , subcontractors, suppliers, or their agents, employees or other persons performing any of the <i>Work</i> ."
3.3	.5	Contract Administration	Delete GC3.3.5 and replace with: "The Owner shall provide the Contractor with three survey control points at the Place of the Work, and relative coordinates of the major portions of the Work. The Contract Administrator may conduct survey checks of the Work at his discretion. The Contractor shall provide a survey assistant, at the Contract Administrators request, for such survey checks. The Contractor shall protect and preserve such survey control points for so long as they are required for the Work and if any of them must be replaced because they are disturbed or destroyed by the Contractor, then the Contractor shall pay the costs of such replacement."
4.3	.1	Protection of Work, Property and the Public	Add: Within the terms of this clause, the <i>Contractor</i> is responsible for the protection of existing power and telephone poles during the term of the <i>Contract</i> .
	.4		Delete GC 4.3.4 and replace with the following: Before commencing any <i>Work</i> at the <i>Place of the Work</i> , the <i>Contractor</i> shall be responsible to locate in three dimensions all underground utilities and structures indicated on the <i>Contract Documents</i> as being at the <i>Place of the Work</i> . The <i>Contractor</i> shall also be responsible to consult with all utility corporations that provide electricity, communication, gas or other utility services in the area of the <i>Place of the Work</i> , to locate in three dimensions all underground utilities for which they have records. The <i>Contractor</i> shall also locate in three dimensions any other utilities or underground structures that are reasonably apparent in an inspection of the <i>Place of the Work</i> .

			The <i>Contractor</i> shall contact BC One Call at least 48 hours prior to excavating to advise of the Work.
4.5	.1	Errors, Inconsistencies or Omissions in the <i>Contract Documents</i>	GC4.5.1 are amended: (i) by deleting “or omission” wherever it appears and substituting “omission or any incorrect, inaccurate or misrepresented fact”, and (ii) by deleting “or omissions” wherever it appears and substituting “omissions or incorrect, inaccurate or misrepresented facts”.
	.4		Add GC4.5.4: “If Additional Instructions are required to address any error, inconsistency, omission or incorrect, inaccurate or misrepresented facts, the Contractor’s inefficiencies or mismanagement, if any, shall not be taken into account when determining any impact of those Additional Instructions on the Contract Price or the Contract Time.”
4.6	.2	Construction Schedule	GC4.6.2 is amended by deleting “monthly” and substituting “monthly or within a shorter time period specified in the <i>Contract Documents</i> ”.
4.12.2	.5	Tests and Inspections	GC4.12.2.5 (1) and (2) are amended by deleting “timely notice” and substituting “not less than two Days”.
6.2	.1	Coordination and Connection	Add: The <i>Owner</i> or <i>Contract Administrator</i> will not be liable for claims for delay caused by applicable third parties, including, but not limited to BC Hydro, TELUS, Fortis BC, Shaw Cable, BC Transit, or Municipal Forces for work required to be undertaken on this <i>Contract</i> .
7.4	.2	Optional Work	Add GC 7.4.2: All items included in the <i>Schedule of Quantities and Prices</i> which are stated to be Optional Work shall be used only as directed and at the sole discretion of the <i>Contract Administrator</i> .
	.3		Add GC 7.4.3 All or any unused portion of these sums shall revert to the Municipality and shall be deducted from the Contract Price before final payment is made. No claim for lost profit shall be made by the <i>Contractor</i> for the deletion of any or all of these optional items.
9.2	.4	Valuation Method	GC9.2.4 is amended by deleting “unless at the time of the agreement the <i>Contractor</i> expressly reserved in writing the right to claim for additional payment or Contract Time adjustments.”
11.1	.1	Concealed or Unknown Conditions	GC 11.1.1(3) is deleted and the following substituted: “(3) differs materially and substantially from:

		Definition	<p>i. the conditions of the Place of the Work that would have been evident to or reasonably foreseeable by a Contractor who was qualified to undertake the Work, and</p> <p>ii. any information in the Tender Documents or otherwise made available by the Owner with respect to any conditions of the Place of the Work that would not have been evident to or reasonably foreseeable by a contractor who was qualified to undertake the Work”.</p>
13.1	.1	Delay by Owner or Contract Administrator	<p>Add:</p> <p>(3) The <i>Owner</i> or <i>Contract Administrator</i> will not be liable for claims for delay caused by applicable third parties, including, but not limited to BC Hydro, TELUS, Fortis BC, Shaw Cable, BC Transit, or Municipal forces for work required to be undertaken on this <i>Contract</i>.</p>
13.9.1	.1	Liquidated Damages for Late Completion	GC 13.9.1.1 is amended by deleting “\$1000 per day” and substituting “\$1,500 per day”.
15.3	.1	Termination	<p>GC 15.3.1 (1) is deleted and the following substituted:</p> <p>“(1) be entitled to:</p> <p>(i) take possession of the <i>Place of the Work</i> and the materials to be incorporated into the <i>Work</i> wherever they are located including materials ordered for the <i>Work</i> but not yet delivered,</p> <p>(ii) utilize the construction machinery and equipment, subject to the right of third parties, and</p> <p>(iii) complete the <i>Work</i> by whatever method the <i>Owner</i> may consider expedient, and</p>
17.5	.2	Referee	<p>GC17.5.2(2) is deleted and the following substituted:</p> <p>2) “if the parties have not agreed upon a Referee within 15 Days after the delivery of the Dispute Notice, then either party may make a written request to the Master Municipal Document Association to appoint the Referee within 10 Days of the written request. If after consultation with the parties, the Association is unable to appoint a Referee who is acceptable to both parties, the Association shall appoint as the Referee an individual who is qualified to act in that capacity under the Contract and who is independent and impartial.”</p> <p>GC17.5.3 is deleted and the following substituted: “If a Referee is selected for appointment as provided by this GC then the parties shall enter into an agreement with the Referee by signing a letter in the form as set out in Schedule 17.5.3 to these GC’s. If one party and the Referee sign the agreement and, after presentation, the other party fails or refuses to sign the agreement, the defaulting party shall be deemed to be a party to that agreement.”</p> <p>GC 17.5.8 is amended by adding after “The Referee” the following:</p> <p>“shall make decisions in a fair and impartial manner and”.</p> <p>GC17.5.II is amended</p>

			<p>a) by renumbering it GC 17.5. 11.1 and by adding the following at the end “unless the parties agree otherwise.” and</p> <p>b) by adding the following: 17.5.11.2 Despite 17.5.1 1.1, on written application of a party, the Master Municipal Documents Association may revoke the appointment of the Referee if the Association is satisfied that the Referee is biased, unqualified to discharge the Referee’s duties, or has failed to diligently and conscientiously perform the Referee’s duties. A replacement Referee shall be selected for appointment as provided by this GC. GC17.5.13 is amended by deleting “by either party, or both parties,” and substituting the following: “by both parties but not by one party.”</p>
18.2	.1	Supporting Documentation	<p>Add:</p> <p>The <i>Contractor</i> shall not work on the <i>Site</i> or deliver materials for which delivery slips submitted to the <i>Owner</i> are the basis of payment unless the <i>Site Inspector</i> is present. However, if the <i>Contract Administrator</i> deems these requirements inappropriate then this requirement may be waived.</p>
18.9	.1	Waiver of Claims	<p>GC18.9.1 is amended by deleting the last sentence and substituting the following: This waiver of claims shall include without limitation those claims that might arise from: 1) the negligence or breach of contract by the <i>Owner</i>, its employees, agents or officials, or 2) the negligence or wrongful acts of the <i>Owner’s</i> consultants or the <i>Contract Administrator</i>, but does not include claims made by <i>the Contractor</i> in writing prior to such application in accordance with the provisions of the <i>Contract</i></p>
	.2		<p>Documents and delivered to the <i>Contract Administrator</i> prior to date of Substantial Performance and still unsettled.</p> <p>GC 18.9.2 is amended by deleting the last sentence and substituting the following: This waiver of claims shall include without limitation those claims that might arise from: 1) the negligence or breach of <i>Contract</i> by the <i>Owner</i>, its employees, agents’, or officials, or 2) the negligence or wrongful acts of the <i>Owner’s</i> consultants or <i>Contract Administrator</i>, but does not include claims made by the. <i>Contractor</i> in writing prior to such application in accordance with the provisions of the</p> <p><i>Contract Documents</i> and delivered to the <i>Contract Administrator</i> and still unsettled.</p>
20.4	.2	Environmental Laws	<p>GC20.4 is amended by adding the following: 20.4.2 The <i>Contractor</i> shall indemnify the <i>Owner</i> for any</p>

			costs, fines, expenses and penalties that the <i>Owner</i> is required to pay on account of the <i>Contractor</i> performing the <i>Work</i> in breach of any applicable Federal or Provincial or municipal environmental laws, regulations, or orders.
21.2	.1		<p>Delete GC 2 1.2.1 and replace with the following: As part of the <i>Work</i> the <i>Contractor</i> shall, to the extent reasonably possible, perform on behalf of the <i>Owner</i> the obligations which the <i>Owner</i> must undertake as “Prime Contractor” by virtue of the <i>Workers’ Compensation Act</i> and <i>Regulations</i>, or other statutes. The <i>Contractor</i> shall have a safety program acceptable to the <i>Workers’ Compensation Board</i> and shall ensure that all <i>Workers’ Compensation Board</i> safety rules and regulations are observed during performance of this contract, not only by the <i>Contractor</i> but by all sub-contractors, workers, material personnel and others engaged in the performance of this contract. The <i>Contractor</i> shall indemnify the <i>Resort Municipality of Whistler</i> and hold harmless the <i>Resort Municipality of Whistler</i> from all manner of claims, demand, costs, losses, penalties and proceedings arising out of or in any way related to unpaid <i>Workers’ Compensation Board</i> assessments owing from any person or corporation engaged in the performance of this contract, or arising out of or in any way related to the failure to observe safety rules, regulations and practices of the <i>Workers’ Compensation Board</i>, including penalties levied by the <i>Workers’ Compensation Board</i>.”</p>
24	.1	Required Insurance	<p>In addition to the MMCD insurance requirements, the <i>Contractor</i> shall also comply with the following requirements of the <i>Municipality</i>, which will take precedence: “The <i>Contractor</i> shall insure and keep insured while this contract is in force, with such companies and on such forms as are acceptable to the <i>Municipality</i>, at the <i>Contractor’s</i> expense, Comprehensive General Liability Insurance covering premises and operations liability; <i>Contractor’s</i> Contingency Liability with respect to the operations of Subcontractor’s Completed Operations Liability, Contractual Liability and Non-Owned Automobile Liability Insurance. The limits of liability for Personal Injury and Property Damage combined shall be for not less than \$5,000,000 each occurrence. The <i>Municipality</i> and the Contract Administrator shall be added as additional named insured under the Comprehensive General Liability. A Cross Liability Clause shall be made part of the Comprehensive General Liability Insurance. All policies shall provide that they cannot be cancelled, lapsed, or materially changed without at least thirty (30) days notice to the <i>Municipality</i> by Registered Mail.</p>

			<p>Prior to the commencement of any work hereunder, the <i>Contractor</i> shall file with the Municipality a certificate of insurance for each policy required.</p> <p>All such insurance shall be maintained until final completion of the work, including the making good of faulty work or materials, except that coverage for completed operations liability shall in any event be maintained for twelve (12) months from date of final acceptance.</p> <p>Should the <i>Contractor</i> neglect to obtain and/or maintain insurance as aforesaid, or deliver such policy or policies to the Municipality, then it shall be lawful for the Municipality to obtain and/or maintain such insurance and the <i>Contractor</i> hereby appoints the Municipality his true and lawful attorney to do all things necessary for this purpose. All monies expended by the Municipality for insurance premiums under the provisions of this clause shall be charged to the <i>Contractor</i>."</p>
25.1	.2	Correction of Defects	<p>Add to Clause:</p> <p>"Where in the opinion of the <i>Owner</i>, delay would cause serious loss or damage, repairs may be made without notice being sent to the <i>Contractor</i> and all expenses incurred will be charged to the <i>Contractor</i>."</p>
	.3		<p>GC25. 1.3 is deleted and the following substituted:</p> <p>25.1.3 The <i>Owner</i> shall provide the <i>Contractor</i> with access, at all reasonable times, to the location of any defect or deficiency described in this GC to enable the <i>Contractor</i> to correct the defect or deficiency but the <i>Contractor</i> shall be responsible for</p> <ol style="list-style-type: none"> 1) exposure of the defect or deficiency in order to correct or repair the defect, deficiency, 2) the restoration of the <i>Work</i> or other property that is disturbed or damaged in the course of <ol style="list-style-type: none"> (i) exposing the defect or deficiency, or (ii) correcting or repairing the defect or deficiency, and 3) all risks associated with any activity described in paragraphs (1) and (2).
26.1	.1	Partial Use	<p>GC26. 1. 1 is amended by deleting "on written approval of the <i>Contract Administrator</i>" and substituting "with prior written notice to the <i>Contract Administrator</i>".</p>



WHISTLER

RMOW 2025 ROAD & TRAIL RECONSTRUCTION

CONTRACT # T00102

ISSUED FOR TENDER

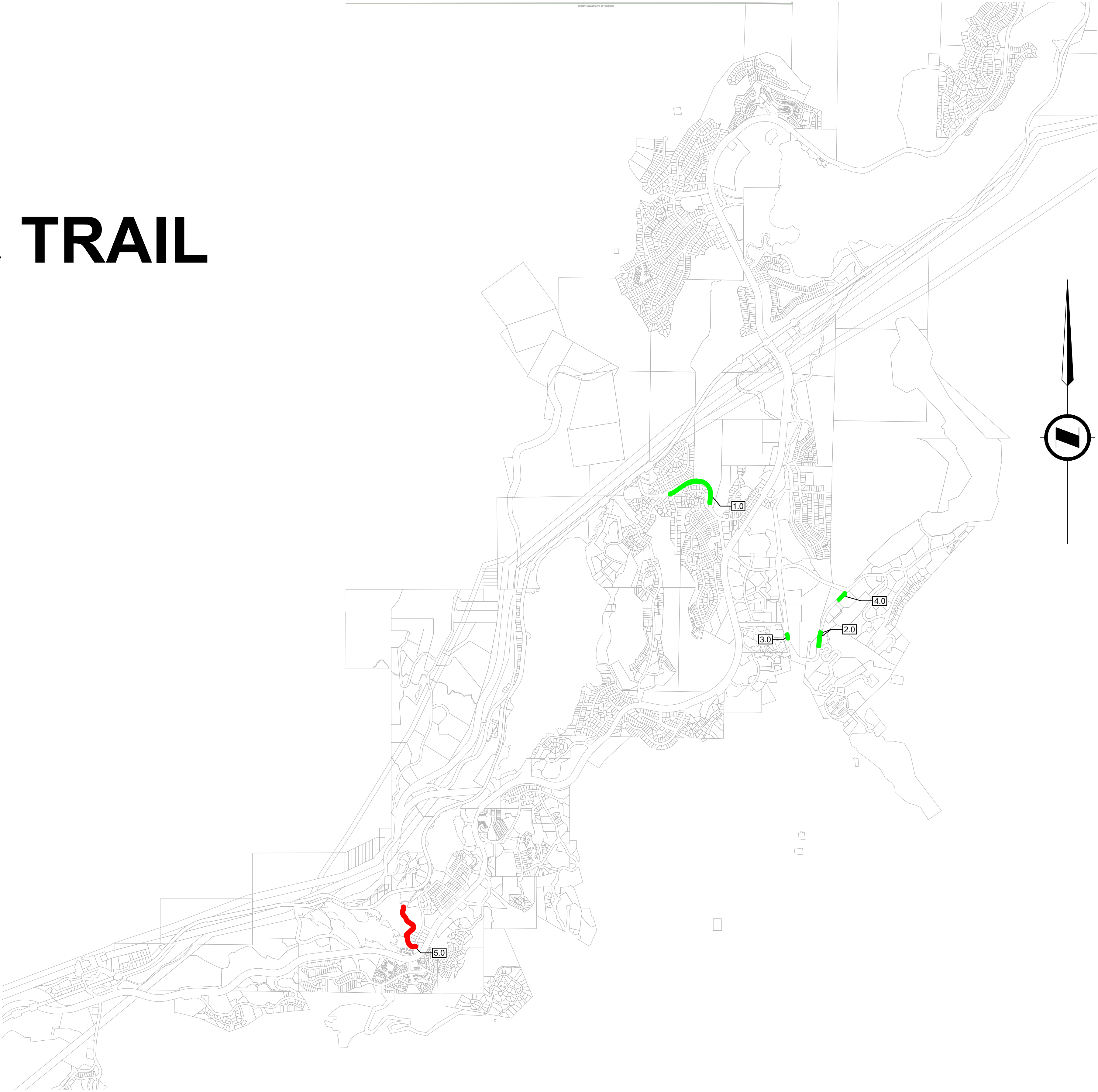
March 2025

WHISTLER, BRITISH COLUMBIA

DRAWING INDEX	
SHEET NUMBER	DESCRIPTION
00	COVER
01	GENERAL NOTES & DETAILS
02	ROAD SITE PLAN
03	TRAIL SITE PLAN
04	SEGMENT MANAGEMENT PLAN
05	EROSION SEDIMENTATION & CONTROL



#101 - 38026 Second Avenue Squamish, BC V8B 0C3
T: (604)815-4646 F: (604)815-4647



LOCATION PLAN

1:10,000 0 200 600m

33763

REV.1

GENERAL NOTES:

1.

ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH:

•

THE MASTER MUNICIPAL CONSTRUCTION DOCUMENT AND STANDARD DETAIL DRAWINGS (MMCD 2009, PLATINUM EDITION),

•

APPLICABLE CONTRACT DOCUMENTS AND ALL SPECIFICATIONS REFERENCED THEREIN;

•

MINISTRY OF ENVIRONMENT AND/OR FEDERAL DEPARTMENT OF FISHERIES AND OCEANS;

•

MINISTRY OF TRANSPORTATION "BC TRAFFIC CONTROL MANUAL FOR WORK ON ROADWAYS", LATEST EDITION; AND

•

WORKSAFEBC, LATEST EDITION.

THE CONTRACTOR SHALL MAINTAIN ON-SITE COPIES OF THE ABOVE DOCUMENTS AND SHALL ENSURE THAT ALL SUB CONTRACTORS ARE THOROUGHLY FAMILIAR WITH THE APPLICABLE SECTIONS OF THE DOCUMENTS.

2.

THE CONTRACTOR SHALL REPAIR OR REPLACE ANY EXISTING STREETS, SERVICES, SIGNS, LANDSCAPING, DRIVEWAY LETDOWNS, PRIVATE LANDSCAPING, OR PRIVATE IMPROVEMENTS THAT MAY BE DAMAGED AS A RESULT OF CONSTRUCTION. REPAIRS TO EXISTING MUNICIPALITY SERVICES SUCH AS WATER, SANITARY SEWER, STORM SEWER, AND STREET OR TRAFFIC LIGHTING SHALL BE MADE BY THE MUNICIPALITY AT COST TO THE CONTRACTOR. REPAIRS TO EXISTING SURFACE WORKS MAY BE DONE BY THE CONTRACTOR AT THE DISCRETION OF THE CONTRACT ADMINISTRATOR.

3.

THE LOCATION OF EXISTING UTILITIES IS COMPILED FROM OWNER AND UTILITY SUPPLIED RECORD DRAWINGS AND ARE CONSIDERED APPROXIMATE ONLY. THE EXACT LOCATION AND EXTENT OF UTILITIES SHOULD BE DETERMINED BY CONSULTING THE LOCAL AUTHORITIES AND UTILITY COMPANIES CONCERNED. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND INVERT ELEVATION BY HAND OR HYDROVAC EXCAVATION BEFORE CONSTRUCTION OF UTILITY CROSSINGS AND SHALL BE RESPONSIBLE FOR RESTORATION OF ANY DAMAGE TO EXISTING UTILITIES. ANY COSTS ASSOCIATED WITH UTILITY CONFLICTS THAT WERE NOT PRELOCATED WILL BE THE CONTRACTORS RESPONSIBILITY.

4.

REPORT ANY DISCREPANCIES TO THE CONTRACT ADMINISTRATOR A MINIMUM 72 HOURS PRIOR TO CONSTRUCTION TO ENSURE THAT THE LINE AND GRADE CAN BE ADJUSTED TO SUIT FIELD CONDITIONS AS REQUIRED.

5.

RESTORATION OF EXISTING DRIVEWAYS, CURBS, STAIRS AND WALKWAYS TO CONFORM TO MUNICIPALITY SPECIFICATIONS AND TO BE INCIDENTAL TO THE UNIT PRICES IN THE CONTRACT FOR MAINLINE AND SERVICE CONNECTIONS.

6.

EVERY EFFORT IS TO BE MADE TO SAVE EXISTING LANDSCAPING WITHIN THE ROAD R.O.W. LANDSCAPING IS TO BE RESTORED TO ITS ORIGINAL OR BETTER CONDITION. IN THE EVENT OF LANDSCAPING REMOVAL THE PROPERTY OWNER SHALL BE ADVISED OF THE REMOVAL AND THE LANDSCAPING PLACED IN OWNERS PROPERTY UPON THEIR REQUEST.

7.

ALL SURVEY MONUMENTS WITHIN THE PROJECT BOUNDARIES SHALL BE PROTECTED DURING THE COURSE OF THE WORK. SHOULD ANY SURVEY MONUMENT REQUIRE RAISING OR RELOCATION, THE CONTRACTOR SHALL NOTIFY THE MUNICIPALITY ENGINEERING AND OPERATIONS DEPARTMENT AT LEAST 72 HOURS IN ADVANCE OF SCHEDULING WORK.

8.

SURVEY PINS DISTURBED DURING THE COURSE OF CONSTRUCTION SHALL BE REPLACED BY A B.C. LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.

9.

ALL PUBLIC ROADWAYS AFFECTED BY THE WORKS SHALL BE KEPT IN A CLEAN STATE AT ALL TIMES AND FREE OF EQUIPMENT AND MATERIALS AT ALL TIMES WHEN CONSTRUCTION ACTIVITY IS NOT UNDERWAY. DUST CONTROL MEASURES SHALL ALSO BE EMPLOYED.

10.

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, AND FOR COORDINATING THE VARIOUS PARTS OF THE WORK. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THERE IS NO DISRUPTION TO SERVICE, AND IF DISRUPTION IS ANTICIPATED, TO NOTIFY THE ENGINEER A MINIMUM OF 72 HOURS PRIOR, AND OBTAIN APPROVAL FOR THE DISRUPTION.

11.

THE CONTRACTOR SHALL PROVIDE PERMANENT HOT MIX ASPHALT PATCHING TO MMCD REQUIREMENTS AT ALL NECESSARY LOCATIONS. PERMANENT PATCH SHALL BE COMPLETED FOLLOWING ALL TESTING, TIE-INS AND TRANSFERS. USE OF COLD MIX IS NOT ACCEPTABLE. TEMPORARY PATCHING OF SIDEWALKS AND CURBS AND GUTTERS IS ALSO TO BE MADE WITH HOT MIX AND MEET THE EXISTING SURFACE.

12.

ALL GRASS AREAS TO BE REINSTATED WITH TOPSOIL AND HYDROSEEDDED IN RURAL AREAS OR SODDED IN URBAN AREAS TO EXISTING OR BETTER CONDITION. THE CONTRACTOR IS RESPONSIBLE FOR A 1 YEAR MAINTENANCE PERIOD.

13.

ALL TRAFFIC CONTROL INCIDENTAL TO THE CONTRACT PRICE.
- ADDITIONAL CONTSTRUCTION NOTES:
1.

STRIP AND SIDECAST EXISTING SHOULDER TO DEPTH OF 100mm AND MAX WIDTH OF 1.0m. SIDECASTED MATERIAL TO BE SPREAD ALONG THE EDGE OF THE EXISTING DITCH. FOLLOWING INLAY, PLACE 100mm MAX SHOULDER GRAVEL AT 4:1 MAX SLOPE. COMPACT TO 95% MODIFIED PROCTOR. SIDECASTED MATERIAL TO BE PLACED AND REGRADED ALONG THE NEW EDGE OF SHOULDER.

2.

ADJUST WATER VALVES, MANHOLES AND OTHER SURFACE APPURTENANCES TO SUIT.

3.

TIE EXISTING DRIVEWAYS TO NEW ASPHALT AND TRANSITION BACK TO PROPERTY LINE. DRIVEWAY TO BE REINSTATED TO MATCH EXISTING MATERIAL. 1.0m A/C PAD TO BE PROVIDED AT ALL GRAVEL DRIVEWAYS AFFECTED BY CONSTRUCTION. USE MMCD UPPER COURSE #2.

4.

FINAL CONSTRUCTION LIMITS TO BE DETERMINED BY THE CONTRACT ADMINISTRATOR PRIOR TO CONSTRUCTION.
-
- DOUBLE CURB RAMP**

SINGLE CURB RAMP

SECTION A - A

SCORE LINE DETAIL

NOTE

 - Refer to Section 02523 of the Master Municipal Construction Document for detailed specifications.
 - When the sidewalk is separated from the curb by a boulevard, the concept of this detail is to be incorporated into the design.
 - Tactile warning strip to be 24" wide, cast-in-place, as supplied by Armour Tile, or approved equal. Colour to be "Federal Yellow" (Armour Tile Colour No. 33538).

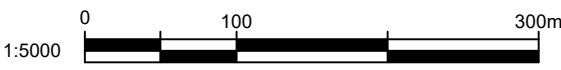
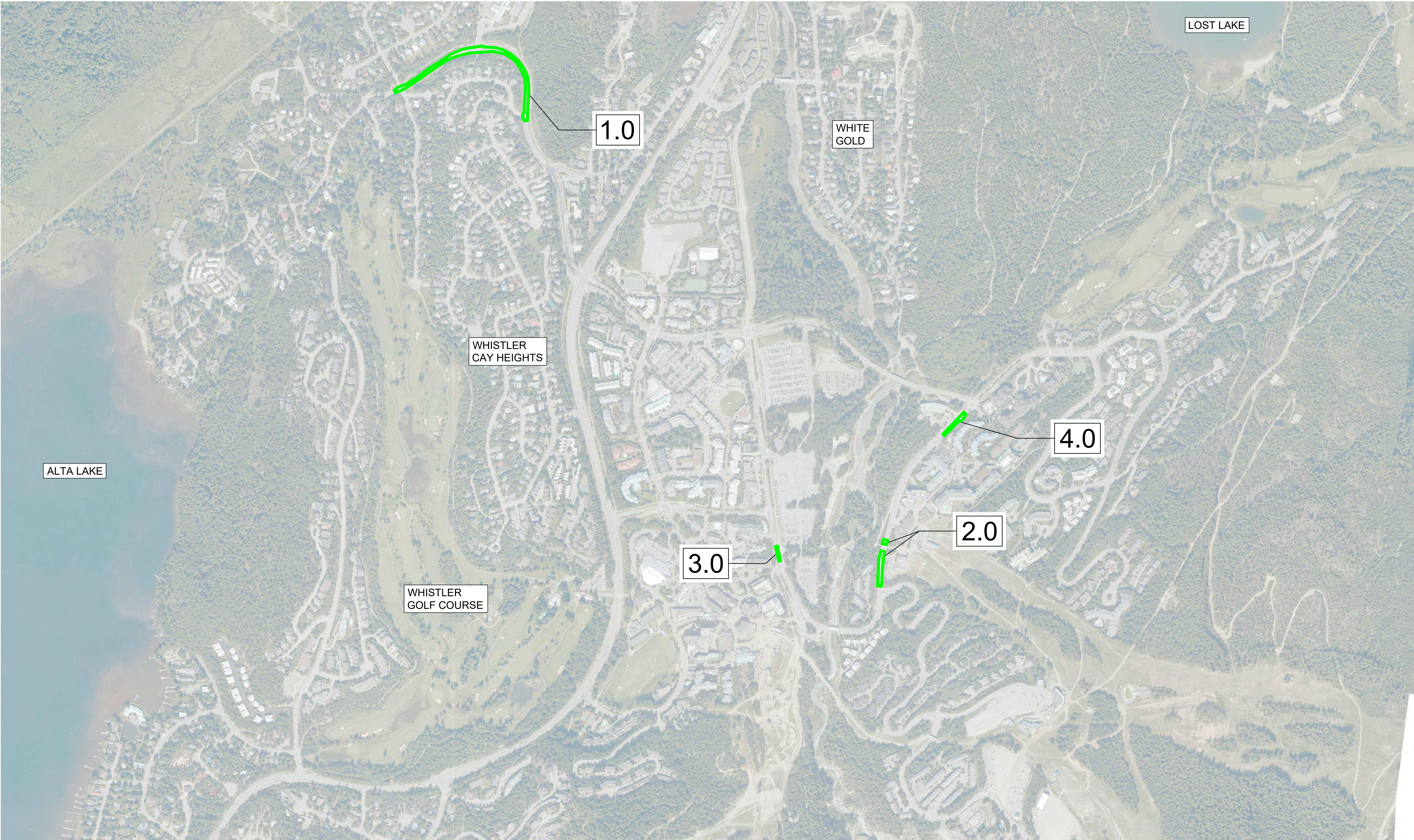
WHISTLER

RESORT MUNICIPALITY of WHISTLER

WHEELCHAIR RAMP AT INTERSECTIONS

DRAWN BY: R.A., B.L.	DATE: JULY 2015
SCALE: N.T.S.	DWG. NO.: C9
- ISSUED FOR TENDER
- DESIGN NO.
- 33763
- PLOT DATE: March 31, 2025
- | REV NO | REVISIONS | DATE | DRAWN | APPRD |
|--------|-------------------|------------|-------|-------|
| 1 | ISSUED FOR TENDER | 2025/03/21 | POL | GS |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
-
- RMOW 2025 ROAD & TRAIL RECONSTRUCTION
GENERAL NOTES & DETAILS
-
- #101 - 38026 Second Avenue Squamish, BC V8B 0C3
T: (604)815-4646 F: (604)815-4647
- | SCALE | CREATION DATE | DWG. NO. |
|----------------|-----------------|----------|
| DRAWN BY: POL | 2025/03/21 | 01 OF 05 |
| CHECKED BY: GS | DESIGN BY: POL | |
| | APPROVED BY: GS | |
| | | REV. 1 |

File: C:\ADSK\ACCORD\ISL\33763 RMW 2024 Paving\Project Files\02_CADD\02_Drafting\02_Production\2025_TENDER_DRAWINGS.dwg



PLOT DATE: March 31, 2025				
REV NO	REVISIONS	DATE	DRAWN	APPRD
1	ISSUED FOR TENDER	2025/03/21	POL	GS
2				
3				
4				
5				



RMOW 2025 ROAD & TRAIL RECONSTRUCTION
ROAD SITE PLAN

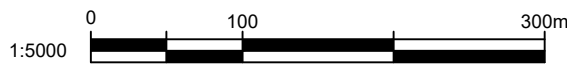


#101 - 38026 Second Avenue Squamish, BC V8B 0C3
T: (604) 815-4646 F: (604) 815-4647

ISSUED FOR TENDER DESIGN NO.

SCALE	1:5000	CREATION DATE	2025/03/21	DWG. NO.
DRAWN BY	POL	DESIGN BY	POL	02
CHECKED BY	GS	APPROVED BY	GS	05
				REV. 1

33763



PLOT DATE: March 31, 2025				
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1	ISSUED FOR TENDER	2025/03/21	POL	GS
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RMOW 2025 ROAD & TRAIL RECONSTRUCTION
TRAIL SITE PLAN



#101 - 38026 Second Avenue Squamish, BC V8B 0C3
T: (604)815-4646 F: (604)815-4647

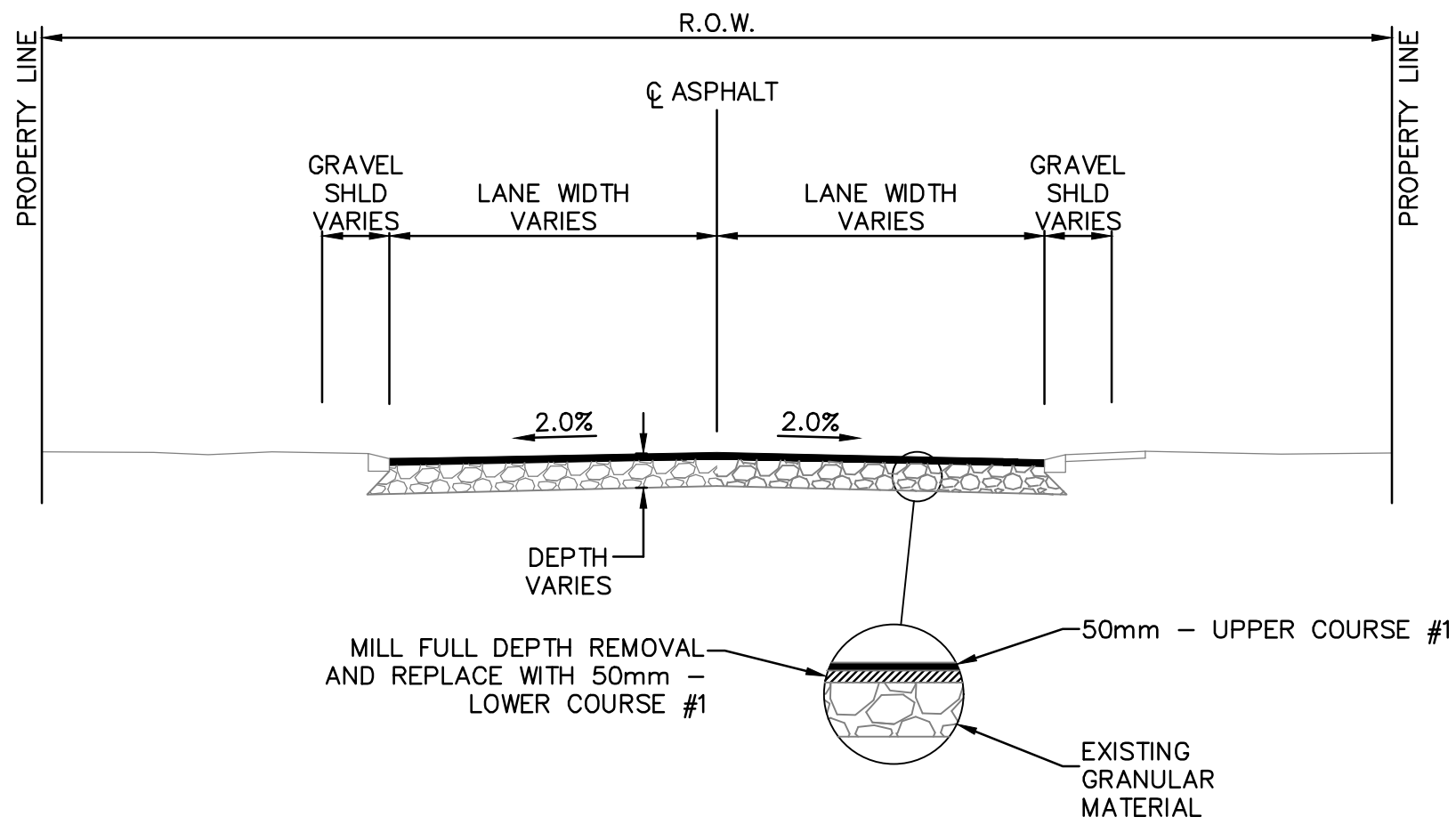
ISSUED FOR TENDER DESIGN NO.

SCALE	1:5000	CREATION DATE	2023/02/16	DWG. NO.
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TREATMENT A: ROAD - FULL DEPTH REMOVAL & 100mm PAVEMENT
TYPICAL SECTION

(SCHEDULE OF QUANTITIES ITEM #1 & #2)

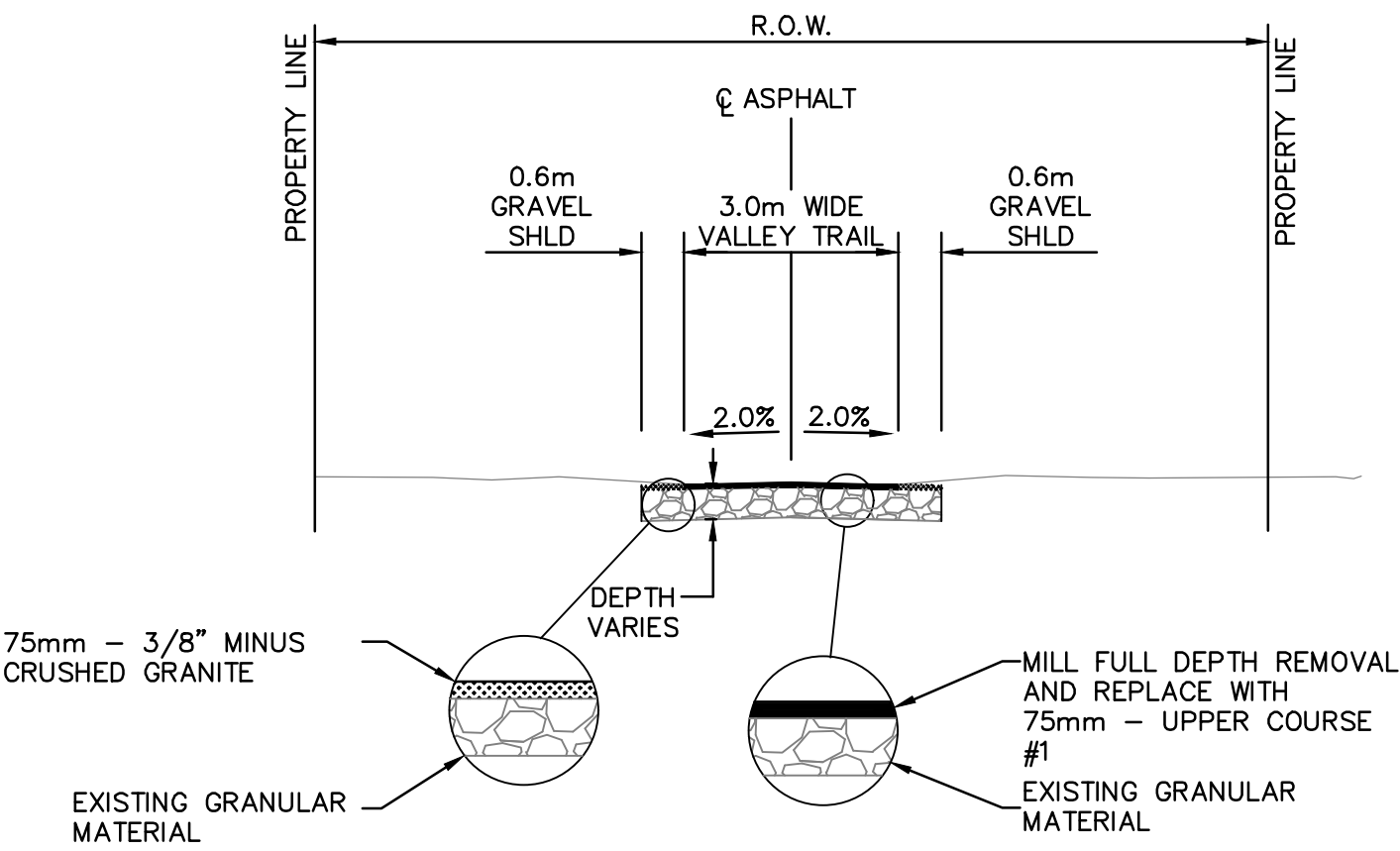


TREATMENT A: ROAD - FULL DEPTH REMOVAL & 100mm PAVEMENT

1. MILL TREATMENT AREA TO FULL DEPTH OF EXISTING ASPHALT (FULL DEPTH MILLING)
2. RESHAPE EXISTING BASE MATERIAL AND SUPPLEMENT WITH 19mm MINUS CRUSHED GRANULAR BASE AS REQUIRED COMPACT TO 95% MODIFIED PROCTOR DENSITY
3. INLAY (WITH PAVER) MILLED AREAS WITH NEW HOT MIX ASPHALT 50mm THICK (MMCD UPPER COURSE #1 MIXTURE) COMPACT TO 97% OF 75 BLOW MARSHALL
4. CLEAN AND TACK COAT ALL SURFACES AND JOINTS

TREATMENT B: TRAIL - FULL DEPTH REMOVAL & 75mm PAVEMENT
TYPICAL SECTION

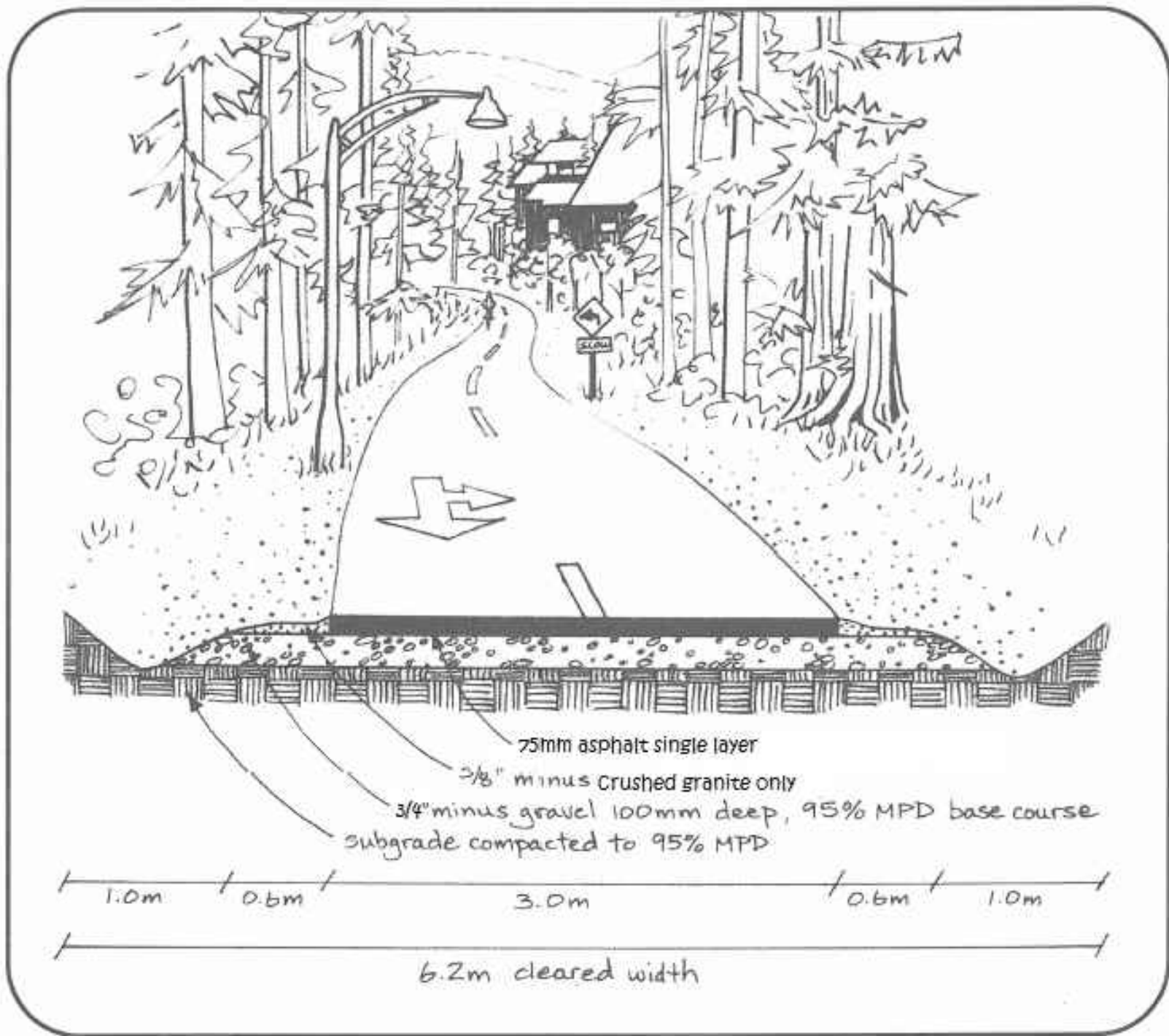
(SCHEDULE OF QUANTITIES ITEM #VT 1 - #VT 3)



TREATMENT D: TRAIL - FULL DEPTH REMOVAL & 75mm PAVEMENT

1. FULL DEPTH REMOVAL OF EXISTING ASPHALT
2. RESHAPE EXISTING BASE MATERIAL AND SUPPLEMENT WITH 19mm MINUS CRUSHED GRANULAR BASE AS REQUIRED COMPACT TO 95% MODIFIED PROCTOR DENSITY
3. CLEAN AND TACK COAT ALL SURFACES AND JOINTS
4. SHOULDER MATERIAL TO BE 75mm LAYER OF 3/8" MINUS CRUSHED GRANITE ON TOP OF 19mm MINUS CRUSHED GRANULAR BASE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
5. TO CONFORM WITH GENERAL TRAIL DETAIL THIS SHEET.

GENERAL TRAIL DETAIL:



TRAIL TYPE I

TYPE I

- plan as paved double-track trail for smooth, all weather use to provide access to village, parks and subdivisions
- use asphalt or chip-seal coat surfacing
- clear width to tread width plus 0.6 m gravel shoulder and adequate drainage on each side
- clear height to 3.0 m
- provide 2-3 m tread width
- provide illumination for night use if appropriate
- provide interpretive and directional signs, benches, viewing areas where appropriate

PLOT DATE: March 31, 2025

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RMOW 2025 ROAD & TRAIL RECONSTRUCTION
SEGMENT MANAGEMENT PLAN



#101 - 38026 Second Avenue Squamish, BC V8B 0C3
T: (604)815-4646 F: (604)815-4647

ISSUED FOR TENDER DESIGN NO.

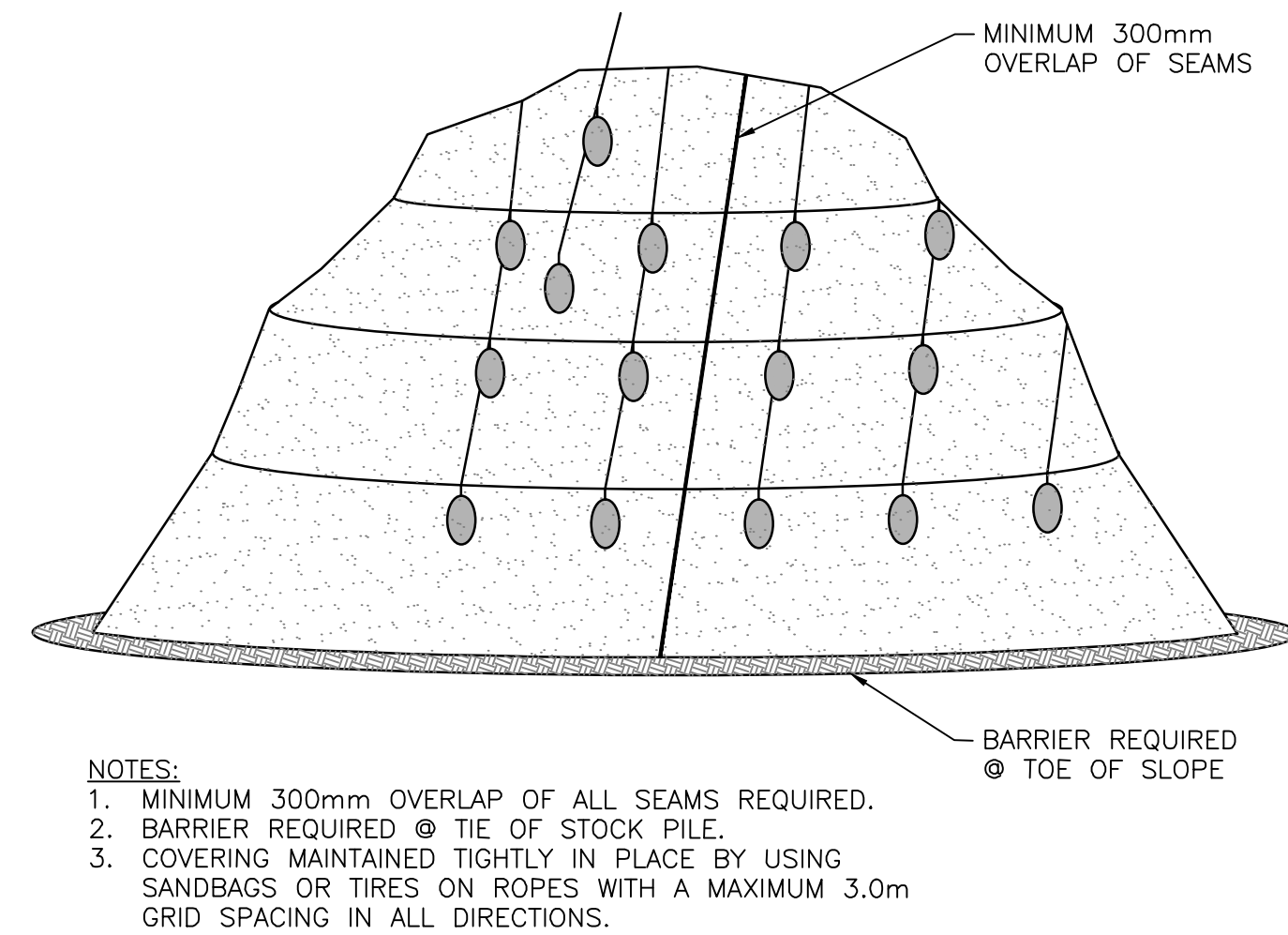
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CHECKED BY GS	DESIGN BY POL	OF
	APPROVED BY GS	05
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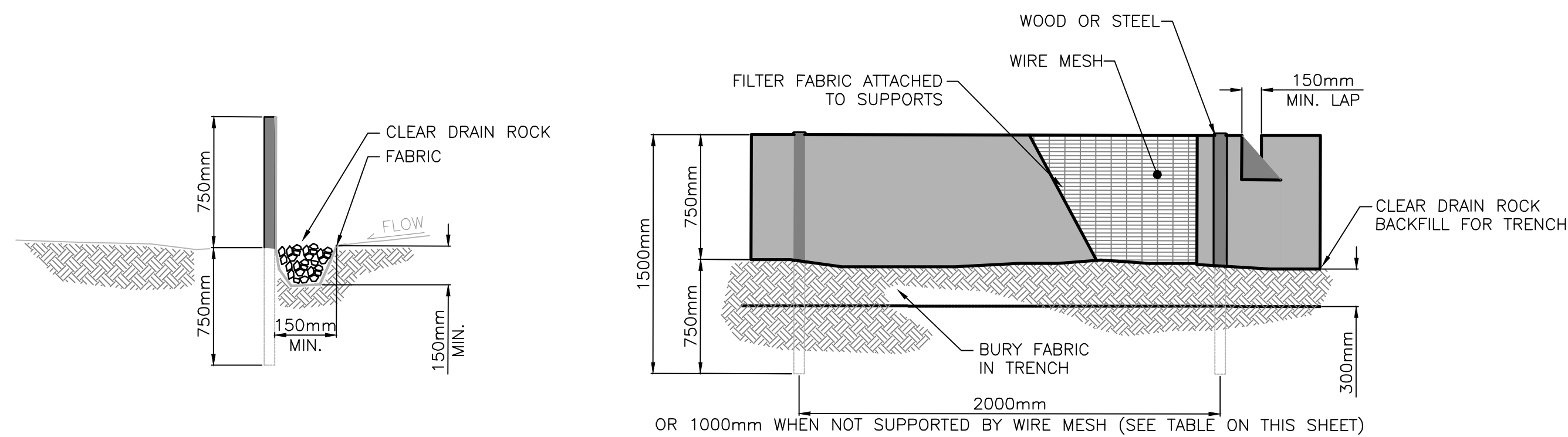
1. ALL WORKS SHALL BE UNDERTAKEN AND COMPLETED IN A MANNER AS TO PREVENT THE RELEASE OF SEDIMENT, SILT OR SEDIMENT LADEN WATER, OR ANY OTHER DELETERIOUS SUBSTANCE INTO ANY DRAINAGE SYSTEM THAT ULTIMATELY DRAINS INTO FISH HABITAT. FAILURE TO ADOPT AND IMPLEMENT THE FOLLOWING EROSION & SEDIMENT CONTROL PROVISIONS MAY RESULT IN A VIOLATION OF SUBSECTION 34(1) AND 36(3) OF THE FEDERAL FISHERIES ACT.
2. SILT FENCING WILL BE MAINTAINED ON EITHER SIDE OF THE WORK SITE TO PREVENT SEDIMENT MIGRATION OFF SITE. SILT FENCING SHALL BE INSTALLED AROUND ALL OUTLETS.
3. THE TURBIDITY DISCHARGE SHALL BE IN COMPLIANCE WITH BC WATER QUALITY GUIDELINES.
4. THE WORKS SHOWN SHALL BE A MINIMUM REQUIREMENT. THE CONTRACTOR SHALL MODIFY AND/OR PROVIDE ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AS NECESSARY TO ACCOMMODATE CONSTRUCTION ACTIVITIES AND REMAIN IN COMPLIANCE WITH BC WATER QUALITY GUIDELINES.
5. AS CONSTRUCTION PROGRESSES THE SEDIMENT AND EROSION CONTROL PLAN MAY BE ADJUSTED ACCORDINGLY AT THE DISCRETION OF THE ENGINEER. ADDITIONAL SEDIMENT CONTROL MEASURES MAY BE NEEDED AS PER THE DIRECTION OF THE ENGINEER.
6. LEAVE UNDISTURBED NATIVE VEGETATION WHERE POSSIBLE.
7. NO CLEARING SHALL OCCUR OUTSIDE OF THE SITE BOUNDARY. THE CLEARING EXTENTS SHALL BE DELINEATED PRIOR TO WORKS BY THE CONTRACTOR AND CONFIRM BY THE CONTRACT ADMINISTRATOR AND/OR ENVIRONMENTAL MONITOR.
8. SEDIMENT FENCES/BARRIERS TO BE INSPECTED AND REPAIRED MONTHLY OR PRIOR TO EXPECTED RAIN EVENTS AND FOLLOWING ALL SIGNIFICANT STORM EVENTS OR PERIODS OF EXTENDED RAIN; ACCUMULATED SEDIMENTS GREATER THAN 30% OF THE FENCE CAPACITY OR DEFICIENCIES SHOULD BE DEALT WITH ACCORDINGLY.
9. FOR EROSION AND SEDIMENT CONTROL TO BE EFFECTIVE ON THIS SITE THE FOLLOWING IMPORTANT EROSION AND SEDIMENT CONTROL MEASURES WILL MEET OR EXCEED THE STANDARDS OUTLINED IN THE DFO "LAND DEVELOPMENT GUIDELINES FOR THE PROTECTION OF AQUATIC HABITAT".
10. CONTRACTOR SHALL OBTAIN SUFFICIENT QUANTITIES OF SILT FENCE, NATIVE GRASS SEED MIX, SANDBAGS, EROSION CONTROL BLANKETING, CLEAN GRANULAR MATERIAL, FILTER SOCKS, ETC. PRIOR TO COMMENCING GROUND DISTURBANCE ACTIVITIES.
11. STOCKPILED MATERIAL WITHIN THE PROJECT SITE WILL BE PROTECTED FROM EROSION AND SEDIMENTATION ISSUES BY APPLICATION OF STRAW, EROSION CONTROL BLANKET, OR AN EQUIVALENT ALTERNATIVE, AS APPROVED BY THE CONTRACT ADMINISTRATOR OR ENVIRONMENTAL MONITOR (EM). STRAW SHALL BE INSTALLED AT A MINIMUM 3cm THICKNESS, OR UNTIL THE UNDERLYING SOIL IS NOT VISIBLE. THE AREA MAY REQUIRE HAND SEEDING OR HYDRO-SEEDING WITH NATIVE SEED MIX SHOULD THE STOCKPILE BE ABANDONED FOR AN EXTENDED PERIOD OF TIME.
12. IF CONTRACTOR FAILS TO MEET TURBIDITY DISCHARGE LIMITS, THE CONTRACTOR WILL BE REQUIRED TO USE A PUMP HOSE EQUIPPED WITH A FLOCCULANT SOCKS OR PROPRIETARY PORTABLE TREATMENT SYSTEM (I.E. STORMGUARD, STORMTECH ETC) TO ENSURE SITE'S TURBIDITY DISCHARGE IS MET. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE SAMPLING AND MONITORING OF TURBIDITY AT THEIR OWN COST UNTIL ACCEPTABLE LIMITS ARE CONFIRMED AND APPROVED BY EM.
13. EXPOSED TEMPORARY SLOPES AND SOIL STOCK PILES ARE TO BE COVERED WITH ONE LAYER OF 6MIL POLY AND WEIGHTED OR STAPLED INTO PLACE.
14. ANY SEDIMENT TRANSPORTED ONTO CITY'S STREETS IS TO BE IMMEDIATELY CLEANED. ALL CATCHBASINS WITHIN TRUCK HAUL ROUTE MUST BE FITTED WITH MANUFACTURED INLET CONTROL DEVICES AND OR 'FILTER SOCKS' TYPE CATCHBASIN CONTROL OR APPROVED EQUIVALENT.
15. THE CONTRACTOR WILL MAINTAIN ESC FACILITIES REGULARLY DURING THE COURSE OF CONSTRUCTION AND MAKE ALL NECESSARY REPAIRS IF ANY DAMAGE OCCURS UNTIL THE CONTRACTOR REACHED TOTAL PERFORMANCE.
16. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REPAIR FOR DAMAGE, DIRECTLY RESULTING FROM HIS OPERATIONS AND FOR THE REMOVAL OF DIRT OR DEBRIS FROM EXISTING SYSTEMS, WHICH MAY BE CAUSED BY OR WHICH MAY RESULT FROM WATER BACKING UP OR OVERFLOWING THROUGH, FROM, OR ALONG ANY PART OF THE WORK OR ADJACENT PROPERTIES. THE CONTRACTOR SHALL BEAR ALL COSTS ASSOCIATED WITH THESE REPAIRS UNTIL WORKS IS COMPLETE AND ACCEPTED BY THE OWNER(S).
17. ESC RELATED WORKS INSTALLED BY PREVIOUS CONTRACTORS, ARE TO BE MAINTAINED UNTIL THE GROUND COVER VEGETATION IS ESTABLISHED AND STABILIZED. AFTER THE CONTRACT ADMINISTRATOR OR ENVIRONMENTAL MONITOR HAS SIGNED OFF ON ESTABLISHED GROUND COVER, THE CONTRACTOR IS TO REMOVE ALL ESC MEASURES ON THE SITE (INCLUDING THOSE INSTALLED BY OTHERS).
18. DURING EXCAVATION ACTIVITIES, GROUNDWATER SHALL BE MANAGED IN ACCORDANCE WITH THE PROVIDED CEMP PLAN. DISCHARGING WATER TO WATERCOURSES IS PROHIBITED, UNLESS DISCHARGED WATER MEETS BC WATER QUALITY GUIDELINES AND PRIOR APPROVAL FROM THE EM.
19. ALL CONCRETE SUPPLY TRUCKS SHALL BE EQUIPPED WITH WASH BUCKET SYSTEM FOR FLUSHING OF FLUME. UNDER NO CIRCUMSTANCES SHALL EXCESS CONCRETE BE FLUSHED ONTO ROADS OR SEWER SYSTEM.
20. CONTRACTOR TO ENSURE THAT NO SILT LADEN WATER OR WATER CONTAMINATED BY SEWAGE OR UN-CURED CONCRETE IS PERMITTED TO ENTER THE DOWNSTREAM DRAINAGE COURSE AT ANY TIME DURING CONSTRUCTION.
21. THE CONSULTANT ASSUMES NO RESPONSIBILITY FOR DAMAGES RESULTING FROM IMPROPER EROSION AND SEDIMENT CONTROL MEASURE UNDERTAKEN BY THE CONTRACTOR.

PROPOSED

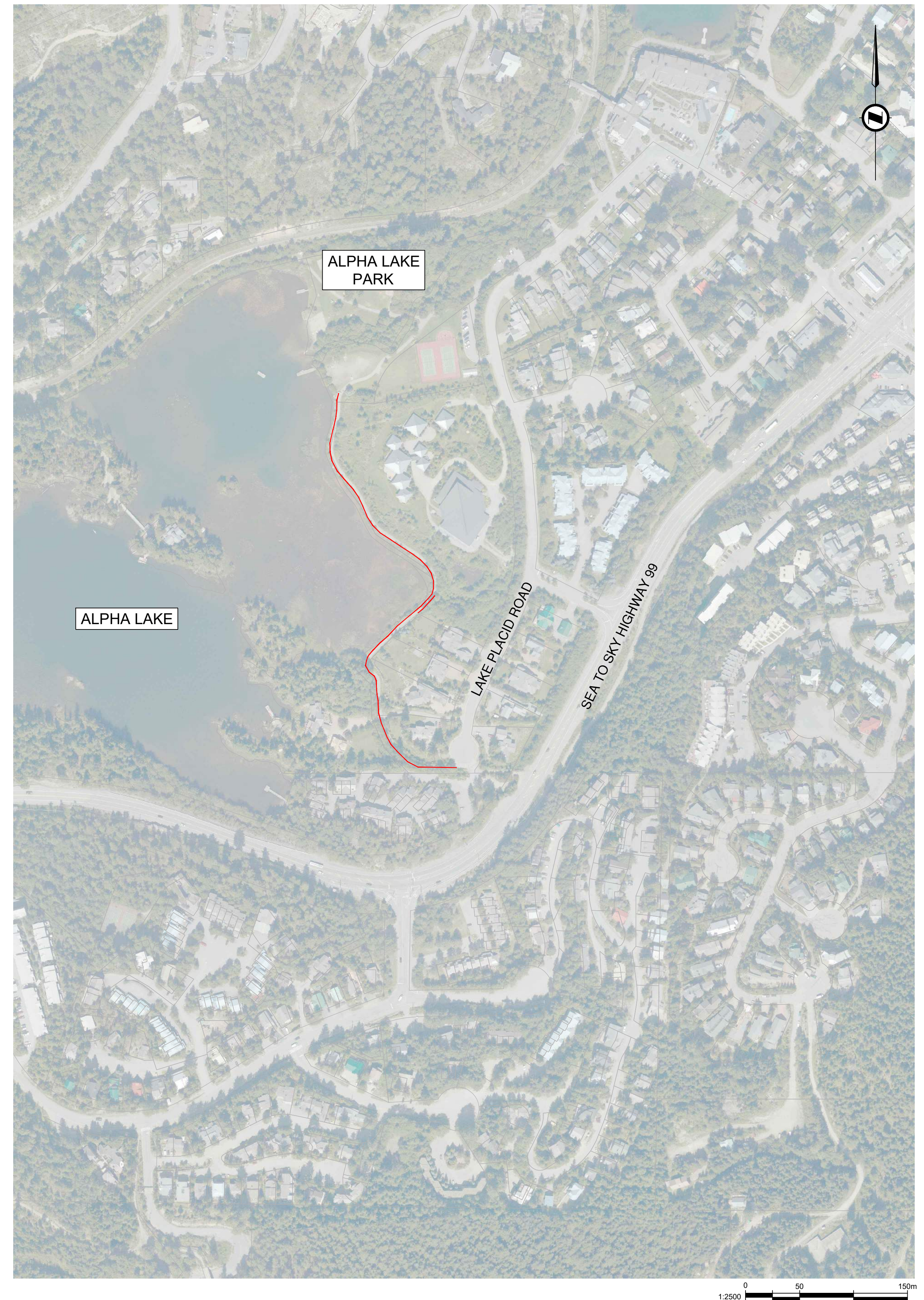
_____ SILT FENCING



NTS



NTS



REV NO	REVISIONS	DATE	DRAWN	APPR'D
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#101 - 38026 Second Avenue Squamish, BC V8B 0C3

DESIGN NO.

SCALE	AS SHOWN	CREATION DATE	2025/03/31	DWG. NO.
DRAWN BY	POL	DESIGN BY	POL	05
CHECKED BY	GS	APPROVED BY	GS	OF
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				REV. 1

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Appendix A
Geotechnical Report



205 – 38026 2nd Ave
Squamish, BC V8B 0C3
604-898-1093

Resort Municipality of Whistler (RMOW)
4325 Blackcomb Way
Whistler, BC V0N 1B4

March 26, 2019
File: 1185

Attention: Chelsey Roberts, ASCT

**Re: RMOW 2019 Road Program, Asphalt Thickness Investigation,
Various Locations, Whistler BC**

1.0 INTRODUCTION

As part of the RMOW 2019 paving program SFA Geotechnical Inc. (SFA) was asked to investigate the pavement thickness on the roads which were being considered for resurfacing. In general accordance with our proposal an asphalt coring investigation was completed on March 18th and 19th, 2019. This letter summarizes the results of our investigation.

2.0 CORING LOCATIONS

The portions of the roads to be investigated were provided to us by ISL Engineering and are summarized below:

1. Millar Creek – including Alpha Lake Road intersection
2. Spring Creek Drive
3. Whistler Road
4. Nordic Drive
5. Whistler Way
6. Nicklaus North Boulevard
7. Lorimer Road
8. Blueberry Drive

The core locations are indicated on the test hole location plans included following the text of this report.

3.0 ASPHALT CORE INVESTIGATION

A total of twenty-two asphalt cores were obtained, using a coring subcontractor, from the existing roadways over the course of the two day investigation. Following removal of the core, each hole was filled with a cold-patch asphalt mix. The thickness of the asphalt cores were later measured in the laboratory. Due to the imperfections on the surface of the cores, the thickness was measured in four locations around the core and an average thickness was reported. The results are presented in Table 1 below. Photos of the cores are included in Appendix A.

Core Number	Thickness (mm)	Core Number	Thickness (mm)	Core Number	Thickness (mm)
CH 19-01	127	CH 19-09	107	CH 19-17	98
CH 19-02	94	CH 19-10	104	CH 19-18	102
CH 19-03	152	CH 19-11	104	CH 19-19	91
CH 19-04	94	CH 19-12	105	CH 19-20	95
CH 19-05	112	CH 19-13	109	CH 19-21	83
CH 19-06	109	CH 19-14	133	CH 19-22	65
CH 19-07	143	CH 19-15	89		
CH 19-08	171	CH 19-16	93		

4.0 CLOSURE

We are pleased to be of assistance to you on this project and trust that our comments are sufficient for your purposes at this time. If you require any further details or clarifications, please do not hesitate to contact the undersigned.

For:
SFA Geotechnical Inc.



Jessica Gagne, P.Eng.
Geotechnical Engineer


Reviewed by:

March 26, 2019




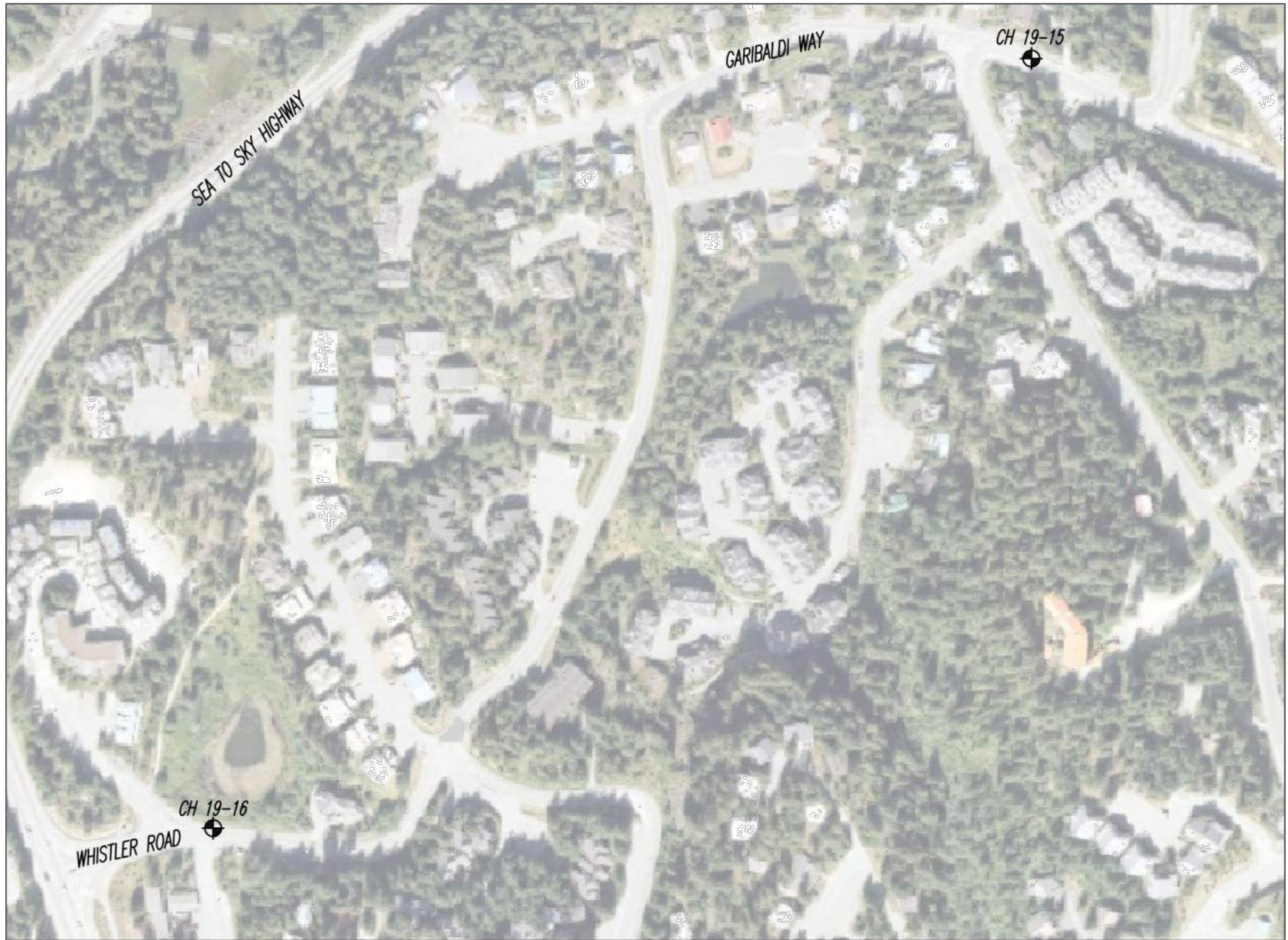
Steven Fofonoff, M.Eng., P.Eng.
Principal




SITE: Lorimer Road, Whistler BC	1185-1 DRAWING NO.	1185 PROJECT NO.	19-03-25 DATE.		SFA GEOTECHNICAL INC. 205-38026 2ND AVE. SQUAMISH, BC, V8B 0C3 604 898 1093
TITLE: Proposed Asphalt Investigation	NTS SCALE AT A4.	JB DRAWN.	CHECKED.	REVISION.	




SITE: Blueberry Dr and Whisler Way, Whistler BC	1185-2 DRAWING NO.	1185 PROJECT NO.	19-03-25 DATE.		SFA GEOTECHNICAL INC. 205-38026 2ND AVE. SQUAMISH, BC, V8B 0C3 604 898 1093
TITLE: Proposed Asphalt Investigation	NTS SCALE AT A4.	JB DRAWN.	CHECKED.	REVISION.	




SITE: Whistler Rd and Garibaldi Way, Whistler BC	1185-3 DRAWING NO.	1185 PROJECT NO.	19-03-25 DATE.		SFA GEOTECHNICAL INC. 205-38026 2ND AVE. SQUAMISH, BC, V8B 0C3 604 898 1093
TITLE: Proposed Asphalt Investigation	NTS SCALE AT A4.	JB DRAWN.	CHECKED.	REVISION.	



SITE: Miller Creek Rd and Spring Creek Dr, Whistler BC	1185-4 DRAWING NO.	1185 PROJECT NO.	19-03-25 DATE.		SFA GEOTECHNICAL INC. 205-38026 2ND AVE. SQUAMISH, BC, V8B 0C3 604 898 1093
TITLE: Proposed Asphalt Investigation	NTS SCALE AT A4.	JB DRAWN.	CHECKED.	REVISION.	

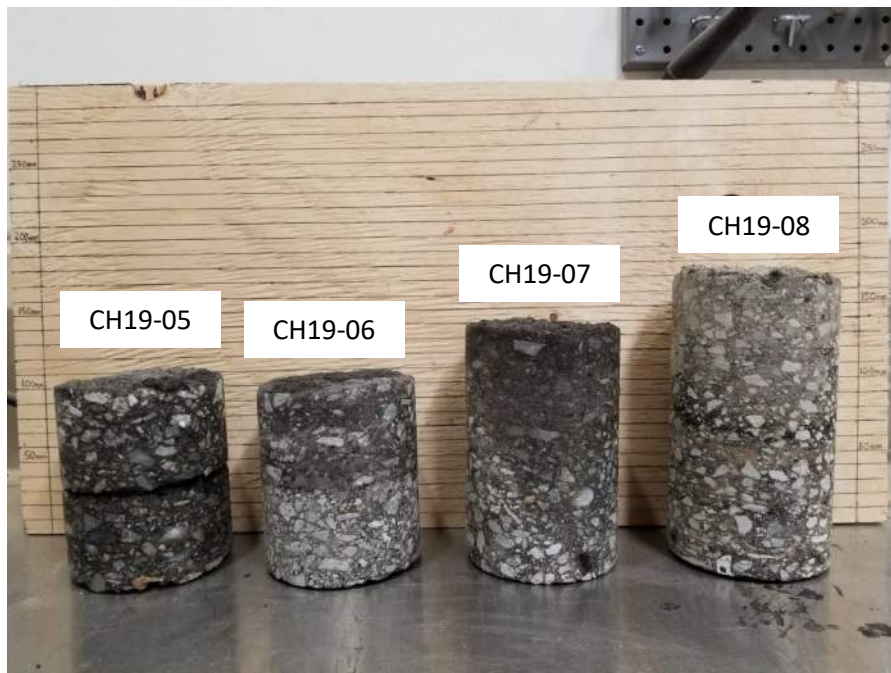


SITE: Nicklaus North Blvd, Whistler BC	1185-5 DRAWING NO.	1185 PROJECT NO.	19-03-25 DATE.		SFA GEOTECHNICAL INC. 205-38026 2ND AVE. SQUAMISH, BC, V8B 0C3 604 898 1093
TITLE: Proposed Asphalt Investigation	NTS SCALE AT A4.	JB DRAWN.	CHECKED.	REVISION.	

APPENDIX A
ASPHALT CORE PHOTOGRAPHS



Cores 19-01 – 19-04



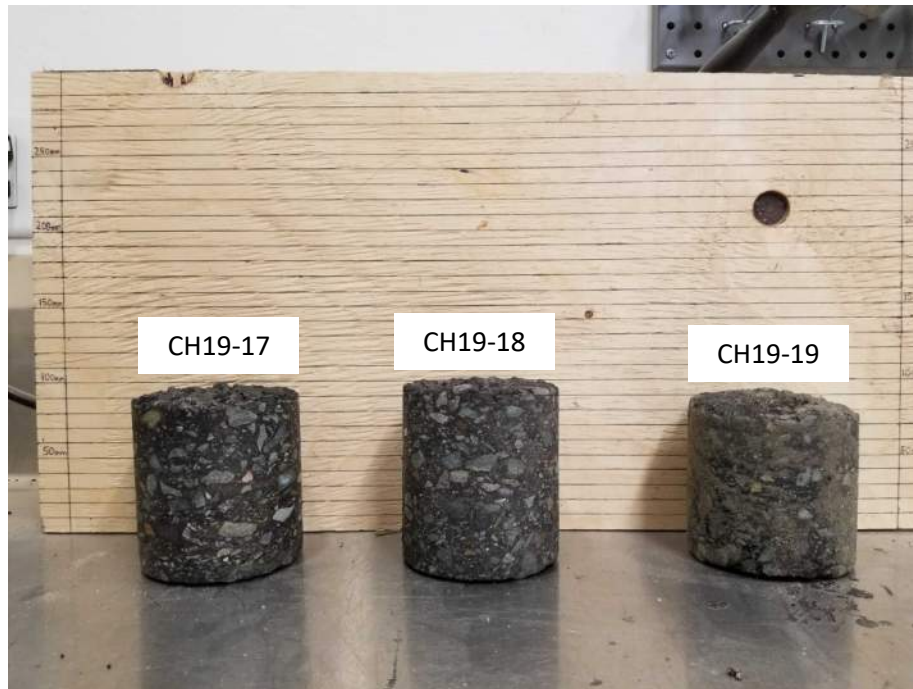
Cores 19-05 – 19-08



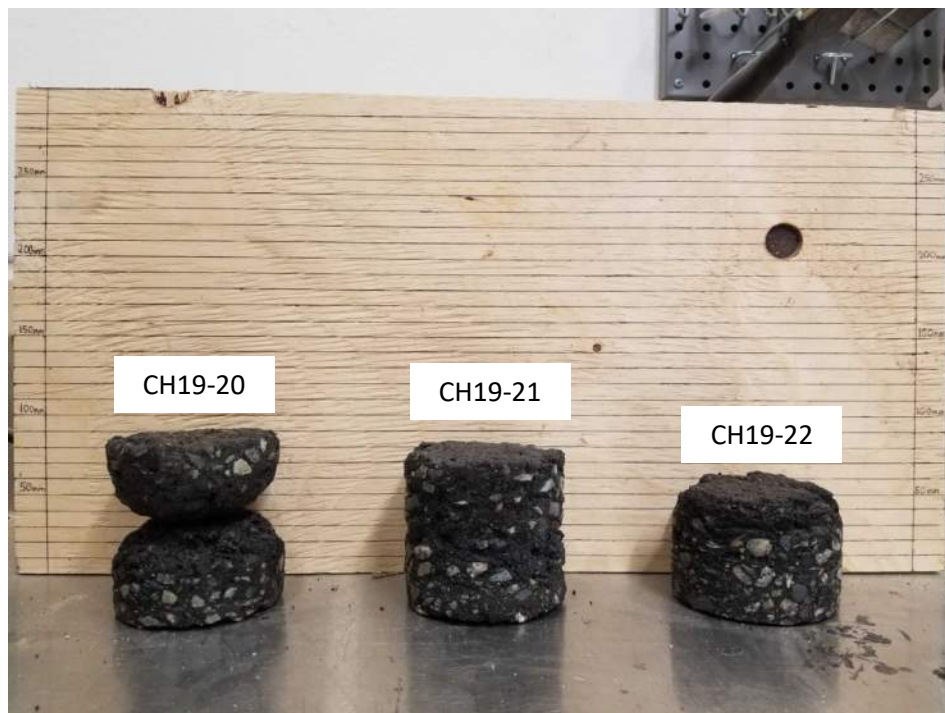
Cores 19-09 – 19-12



Core 19-13 – 19-16



Cores 19-17 – 19-19



Core 19-20 – 19-22

Appendix B
Environmental
Management Plan



CASCADE ENVIRONMENTAL
RESOURCE GROUP LTD

Environmental Management Plan

Alpha Lake Valley Trail Upgrades

Prepared by:

Cascade Environmental Resource Group Ltd.
Unit 3 – 1005 Alpha Lake Road
Whistler, BC
V8E 0H5

Prepared for:

Resort Municipality of Whistler
4325 Blackcomb Way
Whistler, BC
V8E 0X5

File No.: 013-52-07

Date: March 28, 2025

Emergency Contact List

NAME	COMPANY	POSITION	CONTACT
Cascade Contact Numbers	Office		604-938-1949
Candace Rose-Taylor	Cascade Environmental	QEP	604-902-4009
Vicki Legris	Cascade Environmental	QEP	604-905-9391
RMOW Contact Numbers			
Chelsey Roberts	RMOW	Capital Projects Manager	778-997-9425
Andrew Zubacs	RMOW	Supervisor – Parks and Trails	604-935-8325
Spill Contact Personnel			
Emergency Management BC (EMBC)	24 Hour Spill Reporting		1-800-663-3456
DFO Spill Reporting Line			1-800-465-4336
Emergency Medical Services		EMERGENCY	911
Emergency – Whistler			911
Fire – Whistler			911 or 604-935-8260
Ambulance – Whistler			911 or 604-932-5894
Whistler RCMP			604-932-3044
BC Poison Control Centre	BC Drug & Poison Info Center		1-800-567-8911 or 604-682-5050
Whistler Health Care Centre	Vancouver Coastal Health		604-932-4911
Environmental/ Conservation			
Environment and Climate Change Canada			1-800-668-6767
Bear Conservation Officer			604-905-2327
BC Natural Resource Officer			1-877-952-7277

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1 Introduction

1.1 Location of Site

The project consists of trail upgrades along a section of existing paved municipal trail adjacent to Write-off Creek and Alpha Lake in Whistler, BC. The section of trail to be upgraded is located from Highway 99, along the top of bank of Alpha Lake, to Alpha Lake Park.

1.2 Project Description

Cascade Environmental Resource Group Ltd. (Cascade) was retained by the Resort Municipality of Whistler (RMOW) to provide an Environmental Management Plan (EMP) in support of proposed Alpha Lake trail upgrade works. Proposed works consist of removal of existing asphalt paving from the trail, augmentation of tree roots impacting the trail, and repaving of the trail.

1.3 Goals and Objectives

This EMP provides measures to avoid and mitigate potential adverse environmental impacts associated with the proposed works. Adherence to the protocols described in the EMP should ensure that all environmental issues including, but not limited to, air and water quality, wildlife and wildlife habitats, aquatic ecosystems and riparian vegetation are protected and maintained.

1.4 Environmental Permitting

The EMP is designed to meet all applicable municipal, provincial and federal legislation, regulations, orders, standards and guidelines. The EMP assumes that all necessary permits, permissions, allowances and licenses issued by governing bodies are obtained and their provisions complied with. As the trail upgrades site is located adjacent to Write-off Creek and Alpha Lake, proposed works are located within the Riparian Assessment Area (RAA) designated by the provincial Riparian Areas Protection Regulation (RAPR) and the Riparian Ecosystems Protection Area (REPA) designated by the Whistler Official Community Plan (OCP).

The RAPR applies to all residential, commercial and industrial development activities proposed within 30m of a watercourse that is fish-bearing or connected by surface flow to a fish-bearing watercourse (BC Gov, 2019). As proposed trail upgrades are considered institutional use and do not constitute residential, commercial or industrial development, the RAPR does not apply to the proposed works. However, the Whistler OCP may apply to the proposed works, and it is the responsibility of RMOW to determine the application of the OCP.

The provincial *Water Sustainability Act* (WSA) protects all watercourses from top of bank to top of bank, and regulates diversion and use of surface or groundwater (BC Gov, 2016). Proposed trail upgrades are located above top of bank of the adjacent watercourses; however, if any impacts below the top of bank are proposed or expected to occur as a result of works, permitting must be obtained under the WSA.

Additionally, Section 36 of the federal *Fisheries Act* prohibits the deposit of deleterious substances in a watercourse, or in any place where the deleterious substance may enter a watercourse (Government of Canada, 2019). No sediment-laden water or other deleterious substance may enter the adjacent watercourses during works without Authorization under the *Fisheries Act*.

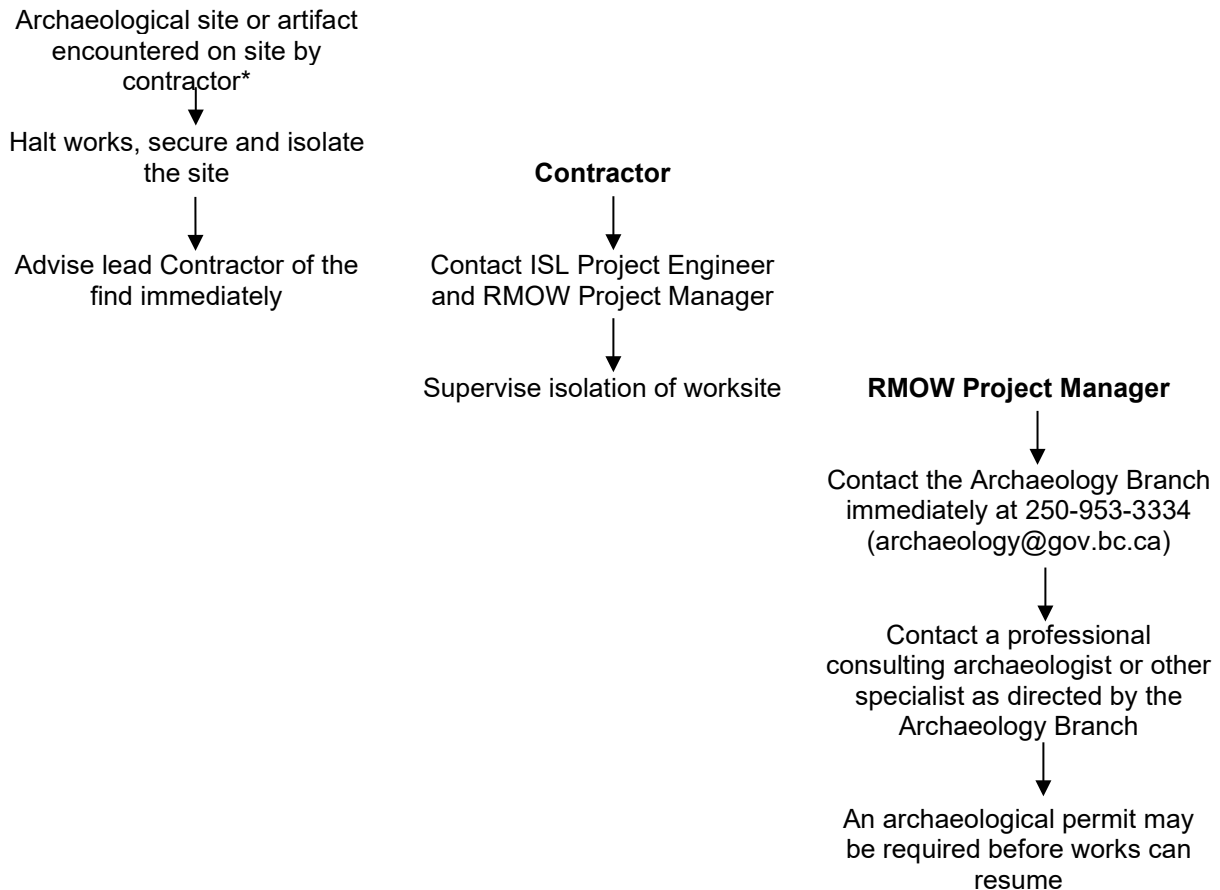
1.5 First Nation's Interests

The project area lies within the vicinity of the Lil'wat First Nation and the Squamish First Nation traditional territories. Land Use Planning Agreements between the Province of BC and the Squamish Nation and the Lil'wat Nation were signed in 2007 and 2008 respectively. The intent of these agreements is to recognise First Nations land use plans and interests, and to encourage engagement on land and resource issues.



An archeological investigation was not conducted as part of this study. The proposed work areas are located within the footprint of the existing trail alignment and an archaeological site is unlikely to be located within the development area. However, if an archaeological site is encountered during works, the following steps must be taken activities must be halted, and the appropriate authorities consulted as per Table 1 below as archaeological sites are protected under the *Heritage Conservation Act*.

Table 1: Archaeological Site Discovery Response Plan



*Evidence of possible archaeology sites includes:

- Rock art (including pictographs and petroglyphs).
- Surface features such as depressions created by former habitations, earthen fortifications, rock cairns, fish traps and clam gardens.
- Stone, bone, antler, wood or shell artifacts that have become visible on the land surface owing to erosion or recent land altering activity.
- Buried cultural or human remains that may be sighted in a cutbank, excavation, eroded shoreline, or other exposed deposit (BC Arch Branch, 2021).

1.6 Recreation and Public Use of the Project Area

The subject site is located within the footprint of the existing municipal trail. During works, the RMOW will manage trail user traffic within the project area to protect public and worker safety. Signage, barriers and flagging may be used to control or prevent public access to the project area during works.



2 Sediment and Erosion Control Plan

The objective of the Sediment and Erosion Control Plan is to minimize site erosion and protect water quality and fish habitat during the project. The following describes the measures that will be used to minimize site erosion and the transport of sediments into adjacent watercourses.

2.1 Sediment and Erosion Control Procedures

The Sediment and Erosion Plan includes the following mitigation measures to minimize soil erosion and impacts to water quality, fish and fish habitat around the project area. These measures are standard erosion control practices in British Columbia and are based on guidelines and recommendations from the Land Development Guidelines for the Protection of Aquatic Habitat (Chilibeck *et al.*, 1992) and Section 3 of Develop with Care: Environmental Guidelines for Urban and Rural Land Development in British Columbia (MOE, 2014a).

Soil exposed or stockpiled during project activities is subject to erosion and transportation by water and wind. The amount of erosion can be controlled by proper planning of project activities, covering disturbed soils, revegetating slopes and by minimizing the amount of exposed soil available on site. Exposed, erodible soils and/or stockpiled materials shall be protected from erosion by one or more of the following methods:

- Installation of silt fence.
- Grading to achieve low angle and less susceptible slopes.
- Surface roughening with machine tracks or woody debris.
- Covering with a suitable material such as polyethylene plastic liner, or geotextile.
- Establishment of a temporary cover of vegetation.
- Application of a soil binding spray or mulch.
- Establishment of permanent vegetation or temporary graminoid cover.

The proposed worksite is located adjacent to Write-off Creek and Alpha Lake. Removal of existing asphalt may result in exposure of sediment, and sediment fencing should be installed at the top of bank of the creek and lake during works to prevent dislodged sediment from migrating down the bank into a watercourse. The sediment fencing will also prevent sediment-laden stormwater entering the watercourses during inclement weather conditions. Sediment fence should be inspected regularly by the RMOW Project Manager and Environmental Monitor (EM), and before and after a significant rainfall event (see Section 2.3 below).

Sediment fencing should be installed prior to works commencing, and should remain in place through project activities, including paving. In co-ordination with the EM, sediment fence installation works could selectively target sections of the project site closest to the watercourses. Sediment fencing can be removed 2-3 days after completion of paving, when the asphalt is hardened and cured.

2.2 Stockpiles and Material Disposal Areas

Temporary stockpiles of excavated material or backfill may be kept on-site. Any piles of earth or erodible construction materials stockpiled on site must be placed in a location where erosion into a watercourse cannot occur, and the stockpile will not impede any drainage. Stockpiles and material disposal areas should be covered with tarpaulins or plastic sheeting as required.

2.3 Wet Weather Contingency Planning

Rainfall events can result in significant erosion due to the impact of the water and the runoff generated. It will be the responsibility of RMOW Project Manager and the EM to monitor current weather predictions. As works are anticipated to take only 3 days, works should be planned to occur within a dry weather window. In the event of heavy run-off, sediment fencing, diversion berms, check dams made of sand bags or straw bales may be used. Materials required to handle excess runoff during a rainfall event should be



on-site at all times. A storm event is defined as the forecast or actual exceedance of 25 mm of rainfall in a 24-hour period.

3 Water Quality Protection Plan

The proposed worksite within the existing paved Valley Trail alignment is adjacent to the top of bank of Write-off Creek and Alpha Lake. Alpha Lake is known to contain rainbow trout (*Oncorhynchus mykiss*), kokanee (*Oncorhynchus nerka*), sculpin (*Cottus sp.*) and threespine stickleback (*Gasterosteus aculeatus*) (BC MOE, 2025), and any of these species may also be found in Write-off Creek.

Protection of water quality is an essential component to healthy ecosystems. In addition, Section 36 of the Federal *Fisheries Act* prohibits the discharge of deleterious substances in a watercourse, or in any place where those substances might enter a watercourse (Government of Canada, 2019). To avoid water quality problems, best management practices (BMPs) outlined for protecting water quality in the Environmental Guidelines for Urban and Rural Land Development in BC (MOE, 2014a) as well as the Requirements and Best Management Practices for Making Changes In and About a Stream in BC (BC Gov, 2022) will be implemented, which includes the following aspects:

- Protecting water sources, through the maintenance of buffers and healthy riparian areas.
- Minimizing the release of sediment and silt into the water column (see Sediment and Erosion Control Plan, Section 2).
- Encouraging groundwater recharge.

Further to the application of BMPs, specific water quality protection measures will be implemented during project activities. Water quality protection measures include:

- Work will be completed as soon as possible once initiated.
- Sediment fencing should be installed at the top of bank of the adjacent watercourses to prevent sediment, sediment-laden stormwater, or construction debris from entering Write-off Creek or Alpha Lake during works.
- Any waters leaving the work site that contain oil and grease, or any other material, should be detained, treated or otherwise processed to remove these materials before release into the environment.
- All equipment and machinery involved in the works will be in good operating condition, free of leaks; machinery will be power washed prior to works to eliminate excessive oil or grease. All refuelling and servicing will take place at least 30 meters from watercourses.

Protection of water quality from sediment and sediment-laden stormwater is discussed in Section 2. Proposed works also include re-paving the trail once the existing asphalt is removed and tree roots are augmented. Asphalt contains hydrocarbons that are mobilised if paving occurs during rain conditions. In order to avoid hydrocarbon run-off from freshly laid asphalt entering the adjacent watercourses, paving should not occur during rain, or if rain is forecast within 48 hours of paving occurring.

4 Air Quality and Dust Control Plan

Proposed project activities may reduce air quality at a local scale during excavation works. Impacts are generally of short-term duration but may still cause adverse air quality impacts. Proposed project activities include removal of existing asphalt, root augmentation and paving. Emissions generated from these activities could include:

- Combustion emissions from heavy-duty diesel and gasoline powered vehicles and equipment.
- Emissions from heated asphalt during paving.
- Combustion emissions from worker commute trips.
- Fugitive dust from soil disturbance.



No land clearing works are proposed for the project; however, excavation of existing asphalt may result in exposed soil and dust. To minimize potentially significant emissions, the following measures will be implemented.

4.1 Mitigation Measures

Sources of pollution from project activities include construction vehicles and equipment, emissions from worker commuter trips and fugitive dust.

4.1.1 Heavy Construction Vehicles and Equipment

The contractor will implement the following mitigation measure to minimize the release of air pollutants from construction related heavy-duty vehicle and equipment.

- All equipment shall be fitted with standard emission control devices appropriate to the equipment and in compliance with Federal and Provincial regulations and standards.

4.1.2 Asphalt Paving

The contractor will implement the following mitigation measure to minimize the exposure of workers and members of the public to exposure to heat and fumes from heated asphalt:

- Paving workers to use appropriate Personal Protective Equipment.
- Public trail users to be re-routed around the paving area during works.

4.1.3 Dust and Silt Control

Dust emissions during works are typically associated with excavation, earth moving, material storage and handling, and vehicle movement. The extent of these impacts would depend on the existing air quality, the size of the affected area and the level of construction. Section 3 outlines sediment control measures to be implemented in the vicinity of watercourses.

To minimize the potential impacts from fugitive dust, the contractor will implement to following:

- Minimize hauling of construction materials, including “one trip” handling procedures during cut and fill activities.
- Covering of dry soil piles during periods of extended exposure.
- Conduct regular visual inspections of site perimeter to check for dust deposition on vegetation, cars and other objects to gauge effectiveness of dust control activities.

5 Vegetation Management Plan

The area of proposed development is located within the existing trail alignment. In some areas, the root systems of trees adjacent to the trail are impacting the existing trail asphalt. No vegetation removal is proposed for works; however, augmentation of the roots impacting the trail will be required. If augmentation of tree roots destabilized a tree and it becomes hazardous, the tree may require removal. If tree removal is required, the following mitigation measures are recommended

- Any trees removed during the songbird nesting season of April 1 to September 1, should be subject to a nest survey prior to removal to ensure compliance with the provincial *Wildlife Act* and the federal *Migratory Birds Convention Act*.
- If a tree is required to be cut, the root wad and all roots that don't require augmentation should be left in place to continue to stabilize the soils. If a tree to be removed is located within the bank of a watercourse, removal of the root wad may require works below top of bank of a watercourse. Any work below top of bank of a watercourse requires permitting under the *Water Sustainability Act*.



- Any trees removed should be replaced in accordance with the RMOW tree replacement criteria of 2:1.

6 Solid Waste Management Plan

Project related sources of waste include tools and parts packaging, food scraps and packaging, fuel containers and construction waste and garbage (e.g. wooden pallets, plastics). Waste and litter have a negative impact on the environment and may injure wildlife if not handled properly.

Contractors will adhere to the requirements of the RMOW Solid Waste Bylaw (RMOW, 2017) and the following solid waste best management protocols:

- Provide clearly labeled receptacles, describing types of materials that can and cannot be deposited into the receptacle. By organizing the waste, materials to be reused will remain stockpiled on site, and recyclable materials will be picked up by designated recycling companies.
- Ensure that packing materials such as crates / pallets, or materials that can be reused by materials suppliers, are returned rather than disposed of.
- Ensure that potentially hazardous waste materials such as oily rags or used spill pads are separated from regular waste.
- Ensure that hazardous waste, such as lubricants, fuels, chemical, and their receptacles are properly disposed of.
- Separate food waste from regular construction waste. Food waste will only be stored in designated bear proof receptacles and emptied regularly.
- Conduct regular visual inspections of the waste receptacles to ensure that recyclable materials are not being deposited into waste receptacles, and waste is not being deposited into the recycling receptacles.
- All waste that cannot be re-used on site will be shipped off site for disposal.
- All contractors and sub-contractor staff will be advised to properly dispose of personal garbage.
- Portable toilets will be provided where necessary and will be emptied regularly.
- Vegetation debris that cannot be used on site will be shipped off site for disposal.

Through the implementation of the Solid Waste Management Plan, waste will be organized to the effect that recycling and reusing of construction materials will be maximized while waste requiring disposal will be minimized. Upon completion of work in a particular part of the site, the site will be cleaned up to the satisfaction of the RMOW Project Manager.

7 Hazardous Waste Management Plan

Disposal of all hazardous wastes generated during project activities will be conducted by a qualified contractor in compliance with appropriate regulations and documentation requirements. Hazardous wastes are defined as any substance that poses a significant hazard to human safety, or any substance toxic to aquatic or terrestrial life, and include fuel and petroleum products, contaminated soil or water, batteries, solvents, anti-freeze, explosives, concrete wash water/leachate or other wastes containing pesticides, corrosives, poisons or dioxins. Hazardous wastes will be stored in appropriate containment areas, properly labelled and stored with secondary containment, located away from watercourses.

7.1 Fuel Storage and Handling

- Petroleum storage, including propane storage, fuel storage, lubricant storage and storage of other petroleum products shall be designed to meet or exceed the existing safety regulations of the Provincial Petroleum Association, the National Fire Code and the Workers' Compensation Board. All storage tanks associated with the project will be installed and operated in compliance with the CCME Environmental Code of Practice for Aboveground Storage Tank Systems Containing



Petroleum Products (2003) and the BC Field Guide to Fuel Handling, Transportation and Storage (MWLAP, 2002b).

- Underground storage of petroleum products shall not be permitted.
- The refuelling of equipment will be conducted in the designated areas, isolated from creeks and surface water drainages. Refuelling will take place a minimum distance of 30 m from the top of bank of all watercourses or surface drainages.
- Where possible fuelling and lubricating of equipment should only be conducted after the equipment to be serviced is moved to a constructed service pad with a separate drainage collection system, as far as possible from detention or sedimentation facilities and leave strips.
- Equipment is to be in good operating condition and free of any leaks, excessive oil and grease.
- All equipment must be checked daily to ensure there are no leaks of any fluids.
- Petroleum storage facilities shall be located away from watercourses. Storage facilities shall be located at a minimum distance of 30m from any watercourse.
- Any fuel or lubricants stored on site must have secondary containment capable of holding 110% of the contents of the container. This may be achieved through use of double-walled storage tanks or by constructing a polyethylene-lined containment berm beneath fuel containers.
- Fuel storage areas must be covered with polyethylene tarps to prevent the accumulation of rainwater.
- Gravity fed storage tanks shall not be permitted. Construction personnel shall be instructed to hand hold the fuel nozzle rather than lock the nozzle open, to minimize the potential for fuel spillage.
- Care will be taken not to overfill any vehicle or equipment fuel tanks.
- Waste fuel, oil, solvents, and other petroleum products shall be disposed of off-site at a location that is approved by the regulatory authorities.
- Any spill of petroleum products shall be reported immediately to the RMOW Project Manager. Clean up of such spills shall commence immediately. Reporting of petroleum spills to authorities shall be as set out in the appropriate legislation and regulations. Such reporting is the responsibility of the contractor. The contractor is also responsible for reporting all spills larger than 100 litres of flammable liquids to Emergency Management BC (EMBC) of the Ministry of the Solicitor General. Where it is not practical to report to EMBC within a reasonable time, the spill shall be reported to the nearest detachment of the Royal Canadian Mounted Police.

8 Spill Prevention and Emergency Response Plan (SPERP)

There is the potential for environmental damage from the accidental spillage of petroleum products and chemicals during project activities. Additionally, asphalt contains hydrocarbons that are mobilised if paving occurs during rain conditions. In order to prevent hydrocarbon run-off from freshly laid asphalt entering the adjacent watercourses, paving should not occur during rain, or if rain is forecast within 48 hours of paving occurring. If paving occurs in rain conditions, stormwater containing mobilized hydrocarbons from freshly laid asphalt should be treated as a hydrocarbon spill, in accordance with the plan outlined below.

To minimize the possible adverse effects on the environment of such a spill, this Spill Prevention and Emergency Response Plan (SPERP) outlines mitigative action to be taken to deal with a possible emergency situation. The SPERP includes guidelines for the reporting of a spill, training procedures, resource allocations and the supervision of containment and restoration procedures.

The SPERP should be presented to all workers and contractors working on the project. In addition, a detailed site map should be provided to all contractors identifying all water courses and other potentially environmentally sensitive areas.

In accordance with the *Spill Reporting Regulation* of the *BC Environmental Management Act* (MOE, 2017) the following spills will be reported immediately to and EMBC as per the protocol outlined below in Table 3:

- A spill or release of any amount of materials which impacts water ways
- Hydrocarbons; 100 litres where the hydrocarbon contains no toxic materials and does not impact water ways
- Produced/salt water; 200 litres where the fluid contains no toxic materials
- Fresh water; 10,000 litres
- Drilling or invert mud; 100 litres
- Sour Natural gas; 10kg or 15 m³ by volume where operating pressure is >100 PSI
- Condensate; 100 litres
- Any fluid including hydrocarbons, drilling fluids, invert mud, effluent, emulsions, etc. which contain toxic substances; 25 litres

8.1.1 Pre-Emergency Planning

Hazardous Identification: The contractor will identify the potential hazards on the project site. A Safety Data Sheet will identify all hazardous compounds coming on site and this information will be available to all personnel. Hazardous compounds will be stored in secure locked containers on site in secured enclosures.

Resources Available: The contractor will use its own resources to clean up a spill. If required, emergency response for larger spills will be available. First responders such as fire departments have the capability to clean up a variety of spills. Other resources such as local environment spill clean-up companies can also be called upon on an emergency basis.

Internal Alerting: Because timely and accurate reporting of an accidental spill can help to ensure quick and efficient response, this plan includes detailed information regarding notification and emergency response procedures.

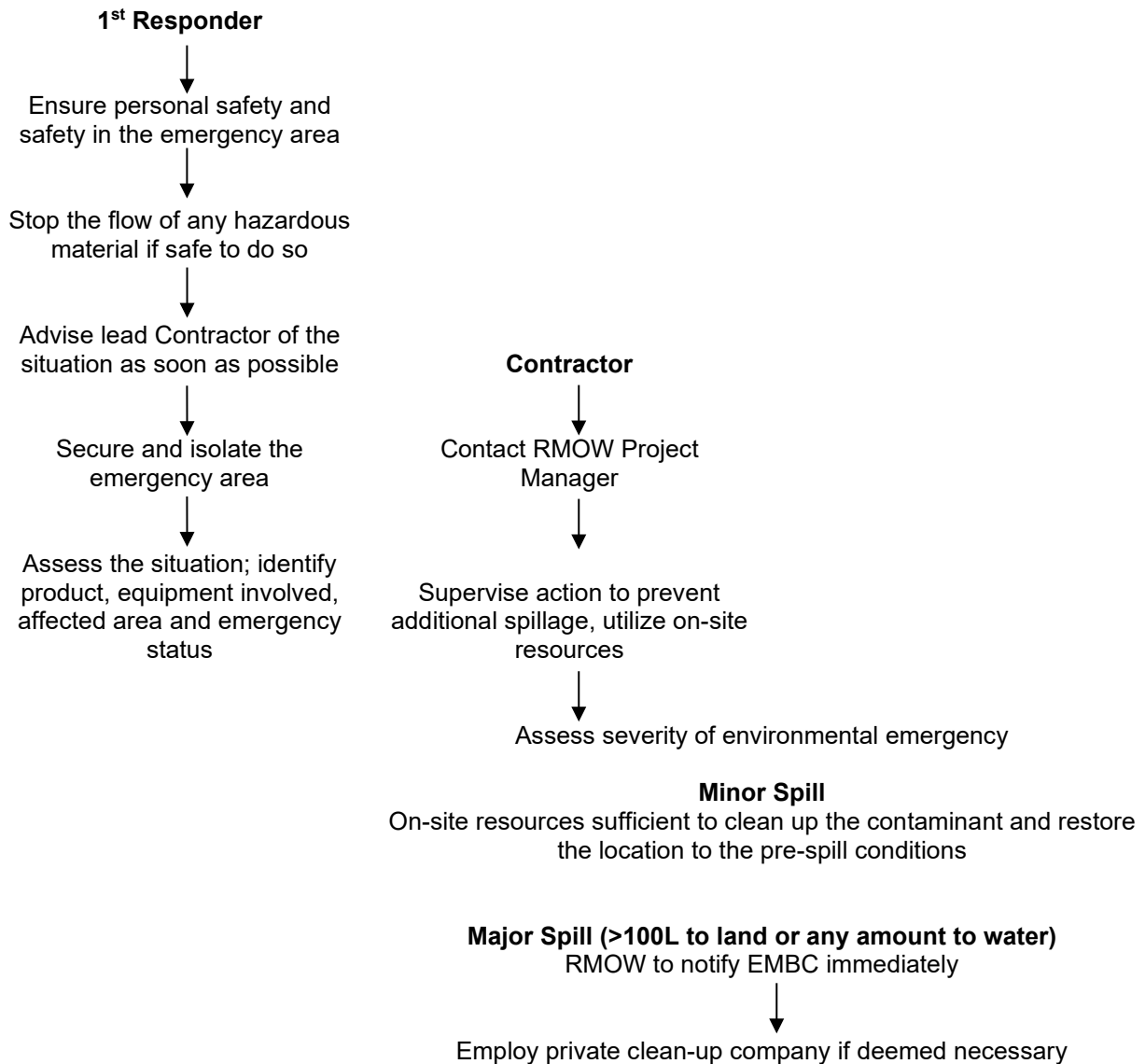
8.1.2 Emergency Response Plan

Any environmental emergency observed on the project site must be reported and responded to appropriately as per Table 2 below. A list of emergency contacts is provided at the beginning of this Environmental Management Plan. Examples of environmental emergencies include the following:

- Fuel spills
- Sewage leaks
- Encounters with aggressive wildlife, or collisions with wildlife
- Large sediment release into watercourses
- Wildfires
- Accidents involving large machinery



Table 2: Environmental Emergency Response Plan



Spills on Land

The first action for clean-up of land-based spills is to prevent the spread to watercourses or drainage ditches through containment and damming. Second, limit the saturation of the material deep into the soils by removal of the liquid by absorbents or pumping. When the free liquid is contained, steps can then be taken to collect all contaminated soil for later disposal.

Spills into Drainage Ditches or Water Bodies

These spills have the potential for causing environmental damage. All spills near or into water require immediate attention and reporting to the RMOW for external reporting. The first response should be to immediately stop the spread of the spilled material downstream. This can be accomplished with the use of absorbent booms and absorbent material designed to pick up oil. These spills will be immediately reported to EMBC by the RMOW.

8.1.3 Internal and Other Spill Response Resources

Spill kits must be available in every vehicle and piece of equipment operating on the right of way or project site. All spill kits must be fully stocked and restocked as soon as possible if used. Example contents of a spill kit may include but are not limited to:

- 2 each - 10' Oil Only Socks
- 15 each - Polypropylene Sorbent Pads (oil only) 18" x 18" x 3/8"
- 2 each - 10 Quart Cellulose Sorbent Material, Oil Only
- 1 each - Barrier Ribbon, Yellow "Caution Do Not Enter"
- 1 each - Poly Disposal Bags (45 gallon drum size, minimum 6 mil)
- 1 each - Blank Labels for Plastic Bags
- 1 each - Plastic Bag Tie
- 1 each - Epoxy Plug Compound (hydrocarbon compatible)
- 1 each Spill Kit Container Marked "Spill Response Kit"

In the case of a very large spill, Spill Kit inventory and off-site materials can be called upon. Other materials available for spill response from outside and on-site contractors include:

- Shovels
- Vacuum trucks
- Booms
- Excavators
- Bags of absorbent
- Loaders

Emergency Back-up

It is assumed that in the case of large spills, the RMOW Project Manager will call on the resources of commercial spill clean-up companies, EMBC, and local fire response teams.

8.1.4 Plan Communication

The Plan will be made available to all employees and sub-contractors on site. It will also be discussed at the initial site meeting and safety training sessions.

8.1.5 Monitoring of Clean up and Restoration

The clean up and restoration of every spill will be monitored by the ISL Project Engineer. The Project Engineer and RMOW Project Manager will be in contact with the appropriate government agencies, as required. The Contractor will be responsible for restoring the contaminated site to its previous state.



8.1.6 Report Filing

At the end of the clean-up, a detailed environmental report will be filed with the government regulatory agencies, if required.

9 Wildlife Management Plan

9.1 Overview

As project activities occur within developed residential areas and municipal parkland, the potential for wildlife to be encountered in the project area is low. However, birds and small mammals may utilize the existing tree and shrub vegetation around the project site. Additionally, black bear are known to frequent residential and park areas in Whistler.

Proposed trail upgrades are located within the existing trail alignment and no vegetation removal is expected to be required for the proposed works. Detrimental effects to local wildlife populations and their habitat can be avoided, minimized and/or managed through implementation of the recommendations outlined below. Particular attention is paid to species during vulnerable periods of the life cycle (e.g. denning bears and breeding birds), and to species at risk.

9.2 Mammals

Large mammal species that are known to visit the general area are limited to black bear (*Ursus americanus*). Mid-size mammal species that may utilize the general area include the snowshoe hare (*Lepus americanus*), coyote (*Canis latrans*), and raccoon (*Procyon lotor*). Smaller species include Douglas squirrels (*Tamiasciurus douglasii*), little brown myotis and the yellow-pine chipmunk (*Tamias amoenus*).

Impacts to mammals potentially occurring in the project area will be mitigated by the following methods:

- Managing attractants to bears and other mammals during project activities (see Sections 6 and 9.2.1).
- Implementing the Wildlife Avoidance Response Protocol (WARP) for large mammals and all species of concern as outlined above in Section 9.2.1 below.

9.2.1 Potentially Dangerous Wildlife

The wildlife management plan for potentially dangerous wildlife is intended to ensure public and worker safety as well as to protect wildlife that may be dangerous to humans from activities associated with the project. Black bears may access the project area if they are attracted to human food/garbage left at the lookout location. Potentially dangerous wildlife management objectives related to project activities include:

- Provide guidelines for eliminating attractants
- Provide guidelines for responding to wildlife encounters

When human food attractants are secured away from wildlife, potential human-wildlife conflicts and unnecessary deaths of wildlife can be avoided. Wildlife that learn to associate humans and human developments with food (food-conditioning) tend to react more boldly with humans and are more likely to cause human injury and property damage than wildlife that are not food-conditioned. Some wildlife, particularly bears, may only need to access human food attractants once or twice to change their behavior toward humans. It is therefore imperative that all potentially attractive sources of food for wildlife are secured using tested and approved wildlife-resistant containers, as per the RMOW Solid Waste Bylaw (RMOW, 2017).



Potential wildlife attractants on site may include human food, garbage, recycling, compost, and petroleum products. Bears in particular will tip over garbage cans, break into sheds, and hang around garbage compactor sites. Common bear proofing procedures include using tested and approved wildlife-resistant containers and ensuring that the receptacles are emptied at the end of the work day.

Any worker that observes potentially “dangerous wildlife” should immediately notify their supervisor. All workers should avoid that location for at least 30 minutes. If it is safe to do so (i.e. from a vehicle or inside a building), making noise may scare the animal off the site. The person in charge of safety should record all wildlife sightings and their corresponding location.

Wildlife Avoidance Response Protocol (WARP)

Wildlife avoidance strategies are employed as appropriate to ensure minimal disturbance to wildlife. A policy of avoidance/withdrawal will be in effect for all wildlife encounters with all large mammals and species of concern in order to minimize the effects of project activities.

A Wildlife Avoidance Response Protocol (WARP) will be initiated by contractors on sighting a bear or other large mammal on or near the project area. This initiative corresponds to guidelines put forth by the Ministry of Environment in *Wildlife Guidelines for Backcountry Tourism/Commercial Recreation in British Columbia, May 2006* and the *Human-Bear Conflicts Reduction Guidelines for River Rafting, March 31, 1998*.

A WARP is initiated at first sighting of a large mammal, within a 50 m buffer (as recommended by the BC Bear Viewing Association). When a bear, or other large mammal, is observed within 50 m of the worksite, contractors will halt what they are doing and not approach the bear. Contractors will make a wide detour or leave the area immediately. If in close proximity to the animal, contractors will be trained to remain calm, keep the animal in view, avoid direct eye contacts and move away without running. Contractors will cease work (if safe to do so) in the 50 m buffer until the animal retreats out of sight. Contractors should be aware that a single animal may be accompanied by young.

In addition, all contractors will adhere to the following BC MOE Safety Guide to Bears in the Wild:

- Avoid conflict by practicing prevention.
- Be alert.
- Look for signs of recent bear activity. These include droppings, tracks, evidence of digging, and claw or bite marks on trees.
- Make your presence known by talking loudly, clapping, or occasionally calling out. Whatever you do, be heard! It doesn't pay to surprise a bear.
- There is no guaranteed minimum safe distance from a bear - the further, the better.
- Stay away from dead animals. Bears may attack to defend such food.

9.3 Amphibians and Reptiles

Whilst reptiles are unlikely to occur within the project footprint, amphibians may occur in the riparian habitat adjacent to the subject site. The best management practices listed below will protect any amphibians or reptiles that may occur in or around the project area:

- Work will be completed as soon as possible once it is initiated.
- Silt fencing will be installed around the project area to prevent any sediment run-off into the creek.
- The project areas will be restored to their pre-works condition upon completion of the works.
- All equipment and machinery involved in the works will be in good operating condition, free of leaks, excessive oil or grease, and power washed. All refuelling and servicing will take place at least 30 meters from the creek.



9.4 Birds

No vegetation removal is expected to be required for the proposed works. If vegetation removal is determined to be required, to ensure compliance the Migratory Birds Regulations of the federal *Migratory Birds Convention Act* (Government of Canada, 1994) and the provincial *Wildlife Act* (BC Gov, 1996), any vegetation removal should occur prior outside of the breeding bird season of April 1 to September 1. If vegetation removal is necessary during this period, a songbird nest survey should be conducted by a QEP prior to clearing.

Active nests of all song birds legally protected, and active or inactive nests of great blue heron, bald eagle, golden eagle, peregrine falcon, gyrfalcon, osprey and burrowing owl are similarly protected (BC Gov, 1996). Additionally, pileated woodpecker nesting cavities are protected when active, and for a period of 36 months after reported unoccupied (Government of Canada, 2024). If active or the above specified inactive nests are identified, they should be protected by species-specific vegetation buffers depending on the species of bird that occupies or created the nest.

10 Wildfire Prevention and Response Plan

As project activities are located adjacent to a creek, the potential for works to cause a wildfire is considered to be low. However, should works take place during a moderate, high or extreme fire danger rating, or should the RMOW require it, the Contractor will ensure that all project staff and sub-contractors are trained in fire prevention and preparedness. Firefighting and fire suppression equipment on site will comply with the *BC Forest Fire and Suppression Regulation*, and the local Fire Danger Rating and associated restrictions will be monitored by the RMOW Project Manager.

The BC Parks Fire Response Plan details fire prevention measures and actions to be taken in the event of a fire outbreak resulting from project activities. The purpose of this plan is to:

- Identify fire prevention measures and train staff accordingly, thus reducing the risk of accidental wildfire starts.
- Clearly define the course of action in the event of a fire.
- Ensure contractors are aware of the correct fire response action.

Fire Prevention Measures:

- Smoking shall be limited to designated smoking areas only.
- Smokers must ensure that cigarettes and matches are fully extinguished before discarding, and are disposed of in appropriate containers.
- Ensure that garbage, and oily rags are properly disposed of and that refuse does not accumulate on site.
- Spills of oil and other combustible material is promptly cleaned up using absorbent materials and properly disposed of.
- Storage of flammable liquids such as lubricants or gasoline shall only occur in government approved receptacles.
- Fire extinguishers must be cached in visible and accessible locations around the site, especially around area of potential concern (e.g. flammable materials storage areas).
- The Project Manager will monitor the Canadian Fire Weather Index to identify daily hazard class listings.

Canadian Fire Weather Index

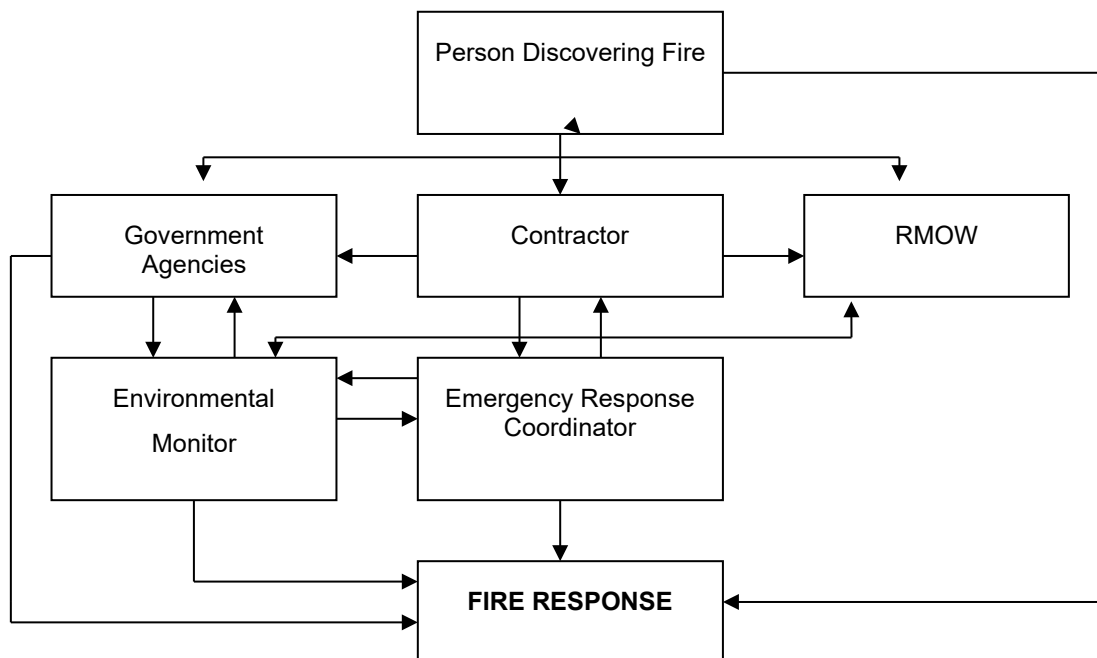
The Canadian Forest Fire Index provides a numerical rating of relative fire potential. Calculation of the daily hazard class is based on consecutive daily observations of temperature, relative humidity, wind speed and 24-hour rainfall. The Daily Fire Hazard Class ratings are available on the internet at <http://www.for.gov.bc.ca/protect/>. The Daily fire hazard Classes are defined below;



- Very Low: Normal Operations
- Low: Normal Operations
- Moderate: Fire watch to be conducted for the period of 1 hour after daily site operations have ceased.
- High: Daily fire watch to be conducted after each work shift for the period of 1 hour. Early work shift to commence after 4th consecutive day of high fire danger.
- Extreme: Daily fire watch to be conducted after each work shift for the period of 1 hour. Operations on the site must stop after 3 consecutive operating days under extreme fire hazard.

The Project Manager will be responsible for obtaining the daily hazard class ratings, communicating with contractors to determine appropriate operations given the daily fire hazard class rating, and reporting daily fire hazard class ratings to the contractor. All project staff and sub-contractors will be responsible for acknowledging the current daily fire hazard class, and adjusting their daily operations accordingly.

Table 3: Onsite Chain of Command for Reporting and Responding to a Wildland Fire



Contractor Fire Identification Instructions

1. Identify ignition and/or fuel source for fire, and remove if possible.
2. Notify Emergency Response Coordinator of the fire and provide the following details.
 - Location of Fire – using site specific landmarks; what is the easiest access to the fire.
 - Fuel type – What caused the fire, what fire fuel is present, are there any natural fire breaks
 - Size of Fire – What is the current size of the fire, and how fast is it spreading.
 - Wind - current wind direction and speed
3. Respond to fire with personal fire suppression kit. Personal fire suppression kit will include;
 - 2.5 Gal Piss can or 10 lb Fire extinguisher
 - Shovel and/or Pulaski



4. Goals of initial fire fighting response

- Remove ignition source for fire and or fuel source of fire if possible
- Extinguish the fire using personal fire extinguisher or piss can
- Contain the fire. Remove potential fuel sources surrounding the fire, including machinery, trucks, and or fuel storage containers
- Ensure personal safety, and the safety of others working around you
- Report back to Emergency Response Coordinator with results of the initial fire fighting response.

Emergency Coordinator Instructions Assessments and Actions

1. Assess situation and be aware that:

- Safety of you and fellow responders is priority.
- There may be hazardous or explosive material on site.
- You may not be able to safely access the site

2. Determine the following:

- Fire location.- Latitudes and Longitudes
- Size - note rate of spread.
- Nature of fire – standing timber, slash, smoking, blazing, crowning
- Wind - direction, speed.
- Access - road, air.
- Water – nearest location and quantity.
- Resources – What resources are on site or near site
- Hazards – Identify Explosive and Fuel storage areas
- Values at Risk – Identify any other values at risk, people, residences, buildings

3. Designate a staging area containing a first aid station (as practical)

4. Take a head count of responding staff.

5. Tell team members:

- Where staging area is
- That if they get lost during the event report to staging immediately.
- Where the safe escape route is from fire.

6. Direct staff to determine fire source and action fire with extinguisher, hose and other equipment.

7. Confer with contractor

- Is it safe to proceed?
- Size and spread of fire.
- Further equipment required?
- Do we need to call on outside help?
- Do we need to consider evacuating site?

8. Direct resources as they arrive. Ensure you keep a record of who is on scene responding.

9. If injured are present, appoint most qualified staff member as Medical Supervisor. If greater than 3 people are injured, appoint a Triage Leader and Transport Supervisor as resources allow (have the Medical Supervisor combine roles as practical).

10. Ensure all staff are accounted for at the end of operation.



11 Environmental Monitoring Plan

The environmental monitoring program will be based on the Environmental Management Plans outlined in this document. Due to the proximity of the worksite to the adjacent watercourses, it is recommended that a Qualified Environmental Professional (QEP) is retained to provide environmental monitoring services for the duration of the project. The following can be expected from the Environmental Monitor with regards to the Environmental Monitoring Program:

- The EM shall be on-site at all times during environmentally sensitive project activities or at other times that the EM, the RMOW, or the Contractor deems necessary for the protection of the environment.
- The EM will have full authority to stop work deemed threatening or potentially threatening to the ecosystem's integrity.
- The EM shall ensure that all project activities associated with the works adhere to the guidelines contained in this EMP, and will provide advice for installation of sediment fencing and conditions during which paving may be conducted (i.e. during a window of dry weather).
- The EM shall ensure that all water leaving the construction site complies with latest version of the federal and provincial Water Quality Guidelines for the Protection of Aquatic Life (MOE, 2017) (Environment Canada, 2001).

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