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**REVISION 002 TO A  
INVITATION TO TENDER**

**RÉVISION 002 À UNE  
INVITATION À SOUMISSIONNER  
DEMANDE D'OFFRES À  
COMMANDES**

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Offer remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'offre demeurent les mêmes.

**Issuing Office - Bureau de distribution :**  
Parks Canada Agency  
Calgary, AB

<b>Title - Sujet :</b> Upscheek Tashee - Wayii Construction – Pacific Rim National Park Reserve	
<b>Solicitation No. - N° de l'invitation :</b> 5P420-20-0443/A	<b>Date :</b> March 17, 2021
<b>Amendment No. - N° de modification :</b> 002	
<b>Client Reference No. - N° de référence du client :</b> 1552	
<b>GETS Reference No.   N° de reference de SEAG :</b> PW-21-00947972	
<b>Solicitation Closes - L'invitation prend fin :</b> <b>At - à :</b> 2:00 PM <b>On - le :</b> March 25, 2021	<b>Time Zone - Fuseau horaire</b> MDT - HAR
<b>F.O.B. - F.A.B. :</b> <b>Plant - Usine :</b> <input type="checkbox"/> <b>Destination :</b> <input checked="" type="checkbox"/> <b>Other - Autre :</b> <input type="checkbox"/>	
<b>Address Enquiries to - Adresser toutes demande de renseignements à :</b> Rebecca Chen	
<b>Telephone No. - N° de telephone :</b> (587) 439-3529	<b>Fax No. -N° de télécopieur :</b> (866) 246-6893
<b>Email Address – Courriel :</b> <a href="mailto:rebecca.chen2@canada.ca">rebecca.chen2@canada.ca</a>	
<b>Destination of Goods, Services, and Construction - Destination des biens, services, et construction :</b> See Herein – Voir ici	
<b>TO BE COMPLETED BY THE BIDDER - À REMPLIR PAR LE SOUMISSIONNAIRE</b>	
<b>Vendor/ Firm Name - Nom du fournisseur/ de l'entrepreneur :</b>	
<b>Address - Adresse :</b>	
<b>Telephone No. - N° de telephone :</b>	<b>Fax No. - N° de télécopieur :</b>
<b>Name of person authorized to sign on behalf of the Vendor/Firm Nom de la personne autorisée a signer au nom du fournisseur/ de l'entrepreneur</b>	
<b>Signature :</b>	<b>Date :</b>

## **Amendment 002**

This amendment is being raised to distribute questions and answers and to make changes to the tender package and to replace the bid price table Annex 1.

### **B. Question and Answer**

- Q1.** 32 01 16.9 - What is the thickness of the existing asphalt to be cut for payment item 52.  
**A1.** Thickness not confirmed at location. Include allowance for up to a maximum of 150mm
- Q2.** 32 01 19.9 - What is the thickness of the existing asphalt to be cut for payment item 53.  
**A2.** Thickness not confirmed at location. Include allowance for up to a maximum of 200mm
- Q3.** 01 11 00; 1.21 – How is payment for location of existing services paid for?  
**A3.** Incidental to the work
- Q4.** 01 11 00; 1.24 – Please confirm the contractor will be provided with all CAD design linework and surfaces prior to commencement of work.  
**A4.** All CAD design linework and surfaces from IFT drawings will be provided to the successful bidder.
- Q5.** 01 11 00; 1.24 – Please confirm the contractor will be provided with all CAD survey/layout control files prior to commencement of work.  
**A5.** All CAD survey/ layout control files will be provided to the successful bidder.
- Q6.** 01 11 00 - Please confirm if design is currently based on details filed survey or if it has been based on LIDAR. If lidar, please confirm range of surface tolerance to be expected.  
**A6.** LiDAR and field survey.
- Q7.** 01 11 00; 1.24.3 – There is no separate payment item for this in the Combined Price Table. Please confirm how this will be paid for.  
**A7.** 01 11 00 Clause 1.24.3 has been removed, see revised specifications
- Q8.** 31 11 00; 1.2.6 - There is no separate payment item for this in the Combined Price Table. Please confirm how this will be paid for.  
**A8.** 31 11 00 Clause 1.2.6 has been removed, see revised specifications
- Q9.** 01 11 00; 1.25.3 – Please confirm that all dispute resolution will be in accordance with the contract dispute resolution process and the statement that “decisions as to the standard or quality of work rest solely with the DR, whose decision is final” is not correct.  
**A9.** 01 11 00 Clause 1.25.3 has been revised to the below, see revised specifications
- In cases of a dispute, if a resolution is unable to be obtained, GC 8 Dispute Resolution process will be followed.
- Q10.** 01 11 00; 1.26.3 – How will work associated with BCH/Telus utility relocation work be completed? Drawings note “by others”. Will this work be completed prior to mobilization to site?  
**A10.** Yes, this will be completed prior to mobilization.
- Q11.** 01 11 00; 1.26.3.2 – Please confirm that adequate OEN and OAM monitors will be provided at all times and will be sufficient to allow for work to be undertaken in more than one location (trail headings).  
**A11.** OEM and OAM monitors will be resourced in accordance with the approved construction schedule prior to commencement of work. The contractor shall also provide a minimum of 10 working days'

notice for OAM and OEM presence. Additionally, any unnecessary callouts/misuse of allotted OAM tie may/will be paid for by the contractor. (See Spec 01 35 44 Clause 1.7.4)

- Q12.** 01 11 00; 1.26.3.6 – Please advise how much time allowance must be made for this and how this allowance is to be paid for “survey and salvage”.
- A12.** 10 days’ notice. Survey and salvaged will be the responsibility of the OEM.
- Q13.** 01 11 00; 1.26.4 – The document states that “All earthwork and retaining wall construction is to be coordinated with the Geotechnical Engineer.” Please clarify what is meant by this statement? It is assumed that the IFT (then IFC) drawings will be issued and trail built accordingly. Is it anticipated that the design currently presented will change? If yes, please provide clarification as to how this will be captured as a change, specifically as it relates to 31 23 33; 1.4.1 which makes it the Contractors responsibility for temporary works. If the design changes in any way during construction this will immediately impact the design of temporary work s and any costs associated with those works.
- A13** This means that the contractor is to involve the Owner's Geotechnical Engineer in planning and construction and not operate independently. The contractor is not authorized to make geotechnical engineering decisions regarding subgrade approval/covering up etc. As noted – this is the Owner's Geotechnical Engineer. No direction for permanent works is to come from the contractor's geotechnical engineer. For clarification - local nuances consistent with the tender drawings are expected and are not expected to affect price. If any design changes are required, then the normal procedure for impacts and approvals for cost changes prior to implementation would apply.
- Q14.** 01 11 00; 1.28.2 – Please confirm the contractor WILL be provided with plans and not “may be”.
- A14.** It is not anticipated that any Plans or documents will be provided. For bidding purposes, the entire project area should be treated as an archeologically sensitive site.
- Q15.** 01 25 20; 1.2.5 – Please confirm this does not include for work out of sequence as directed by consultants or DR.
- A15.** It is the contractor's responsibility to understand all limitations and windows which may apply to the work, sequencing, and work site availability which is to be outlined in the contractor's submitted and approved construction schedule.
- Q16.** 01 11 00; 1.43 – Please clarify. Is weekend work also permitted on long weekends as long as no lane closures are in place?
- A16.** No work will be allowed during long weekends.
- Q17.** 01 35 00 – Please confirm portable Message Centre are not required.
- A17.** 01 11 00 Clause 1.12.5 has been revised to the below, see revised specifications  
Supply and install two project signs (1.2 m X 2.4 m) on Highway 4 and variable message boards at each end of the Park.
- Q18.** 01 35 43, 1.1 – There are no payment item for the items listed in “Table 1” within the Combined Price Table. Please confirm how this will be paid for.
- A18.** Items 60 to 69 have been added to price table,
- Q19.** 01 35 43; 1.1.10 – Please provide a copy of the EMP.
- A19.** All mitigation requirements have been included in the Specifications. After award of contract, the EMP will be provided to the successful bidder as background information, if requested.
- Q20.** 01 35 43; 1.6.8 – Please confirm how the “reduced speed” is to be paid for at what allowance must be made for this.
- A20.** Incidental to work. The contractor schedule to allow for OEM assessment ahead of time.
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- Q21.** 01 35 43; 1.8.2 – Please confirm how payment will be made for “rock walls”. There is no separate payment item for this in the Combined Price Table.
- A21.** "Rock walls" also referred to as "Boulder Facing on steep cut slopes". Additional item titled "Boulder facing on steep cut slopes" to be included in Price table. Both item 31 and new item is to include placement.
- Q22.** 01 35 43; 1.8.4 – Please provide clarification on this. The entire perimeter of the site is going to be under the “dripline” of tress, but the specification states we will not be Allowed to have heavy equipment working in this area.
- A22.** Large segments of the construction area are outside the dripline of trees. Action must be taken to ensure equipment is entering and exiting the site without any impact to adjacent vegetation. Inside the work site care will need to be taken to ensure trees that are to remain are protected and do not receive undo stress during construction.
- Q23.** 01 35 43; 1.8.6 – Please provide clarification. The clearing work has been completed other than any additional areas as directed by the DR. Does this flagging need to be completed.
- A23.** 01 35 43 clause 1.8.6 to be revised to the below, see revised specifications  
Prior to beginning work, the Contractor must flag the limits of the work area. Mature trees to be protected must be clearly marked as such.
- Q24.** 01 35 43; 1.8.7 – The contractor is responsible to have a Danger Tree Assessment. Please confirm who is responsible for the costs of falling these trees. There is no separate payment item for this in the Combined Price Table.
- A24.** It is anticipated that there will be no danger trees present at the commencement of work. Any existing trees becoming danger trees as a result of construction activities are expected to be mitigated in place by the contractor rather than removed.  
If tree removal becomes unavoidable costs for falling will be as per Item 7 “Tree Removal" of price table.
- Q25.** 01 35 43; 1.9.12 – There is no separate payment item for this in the Combined Price Table. Please confirm how Invasive Species work for 2 year period is to be paid for.
- A25.** Incidental to work and should be accounted for in contractor's approved schedule.
- Q26.** 01 35 43; 3.4.1 – There is insufficient space to store the materials at High Point. Please provide an alternate location for this.
- A26.** For tender purposes, an allowance should be made for a maximum distance of 10km for transportation.
- Q27.** 01 52 00; 1.12 – There is insufficient space to store the materials at High Point. Please provide an alternate location for this.
- A27.** For tender purposes, an allowance should be made for a maximum distance of 10km for transportation.
- Q28.** 01 35 43; 3.4.3 – Please provide shop drawing of hooked rebar “pin”.
- A28.** See Drawing X-02 of IFT drawing package.
- Q29.** 01 35 44; 1.1.1 - There is no separate payment item for this in the Combined Price Table. Please confirm how this will be paid.
- A29.** New items 55 to 69 added to Pricing table.
- Q30.** 01 35 44; 1.1.2 - There is no separate payment item for this in the Combined Price Table. Please confirm how this will be paid.
- A30.** New items 55 to 69 added to Pricing table.
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- Q31.** 01 35 44; 1.1.3 - There is no separate payment item for this in the Combined Price Table. Please confirm how this will be paid.  
**A31.** New items 55 to 59 added to Pricing table.
- Q32.** 01 35 44; 1.1.4 - There is no separate payment item for this in the Combined Price Table. Please confirm how this will be paid.  
**A32.** New items 55 to 59 added to Pricing table.
- Q33.** 01 35 44; 1.1.5 - There is no separate payment item for this in the Combined Price Table. Please confirm how this will be paid.  
**A33.** New items 55 to 59 added to Pricing table.
- Q34.** 01 35 44; 1.1.6 - There is no separate payment item for this in the Combined Price Table. Please confirm how this will be paid.  
**A34.** New items 55 to 59 added to Pricing table.
- Q35.** 01 35 44; 1.9.4 – It is unreasonable for a contractor to make an allowance for “hand falling and hand sectioning of selected CMT’s” the extent of which is determined by others at a later date. Please provide an alternate method of payment for this work.  
**A35.** 01 35 44 Clause 1.9.4 has been removed, see revised specifications
- Q36.** 01 51 00; 1.5.2 – Please confirm how many additional personnel from the Client and all other consultants will be on site that we need to make allowances for facilities in compliance with COVID-19 protocols.  
**A36.** An allowance should be made for an average of seven additional personnel from the client and all other consultants.
- Q37.** 31 11 00; 1.3.5 – Please provide a location for merchantable timber to be transported.  
**A37.** An allowance should be made for a maximum distance of 10km for transportation of timber for bidding purposes. However, no merchantable timber is expected at this time.
- Q38.** 31 11 00; 3.3.4 - Please confirm who is responsible for disposal fees for both organic and mineral soil disposals at J. Robbins.  
**A38.** There should be no disposal of organic soils. The designated disposal site is arranged and paid by the owner.
- Q39.** 31 11 00; 3.4.1 – Grubbing of stumps and roots is noted as restricted “to 200mm below existing ground”. This contradicts the scope of work which shows excavations to depths far exceeding this. Please clarify what is required.  
**A39.** Grubbing or removal of stumps is to be performed concurrently with trail construction based on required depth of excavation. A number of existing stumps will remain in place or only be partially removed to limit disturbance to either adjacent existing tree root systems and/or the slope. Removal of stumps must be pre-approved by the geotechnical engineer and OEM.
- Q40.** 31 11 00; 3.4.1 – Please provide location for “stream enhancement works”, as this cannot be located on the drawings. The documents also not there is no in-stream works.  
**A40.** 31 11 00 Clause 3.4.3 has been revised below, see revised specifications  
The OEM will designate large stumps to be removed and set aside to be placed within the forest adjacent to the trail.
- Q41.** 31 11 00; 3.5.2 – Please confirm location for stockpile of retained organic material.  
**A41.** Highpoint location
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- Q42.** 31 14 13; 1.1.5 – Description states measurement will be by m3, but payment item 13 in the Combined Price Table states m2. Please confirm which unit is correct.
- A42.** Pricing table revised to be m3 matching spec.
- Q43.** 31 14 13; 1.1.2 – Please confirm that this refers to payment item 10. Please confirm that only surplus material will be paid for under this item. This item does not include any organic material that is excavated and either stockpiled for spreading on site or hauled off site for temporary stockpile and then brought back in for spreading.
- A43.** Item 10 and Item 11 are to be combined. Revise title to "Trail waste excavation not for reuse".
- Q44.** 31 14 13; 1.1.2 - Please confirm how this volume will be calculated.
- A44.** Calculation will be made based on truck volumes from daily load logs provided by contractor.
- Q45.** 31 14 13; 1.1.3 - Please confirm that this refers to payment item 13. Please confirm "designated area" location. Please confirm this payment includes for volume of organics whether or not it has been removed from site temporarily and brought back, or is stockpiled on site.
- A45.** Confirmed. "Designated area" is assumed to be High Point.
- Q46.** 31 14 13; 1.1.1.4 - There is no separate payment item for this in the Combined Price Table. Please confirm how this will be paid.
- A46.** Refer to Questions 24 to 39
- Q47.** 31 14 13; 1.1.7 - Please confirm location.
- A47.** Wood chips will be provided by Parks from a site within Park boundaries.
- Q48.** 31 14 13; 3.1.1 – Mention is made of root barrier installation. There is no separate payment item for this in the Combined Price Table. Please confirm how this will be paid.
- A48.** Reference to root barrier removed. 31 14 13 Clause 3.1.1 has been revised to the below, see revised specifications  
".1 To minimize impacts to the existing vegetation and sensitive sub-grade, the Work shall be performed in a manner to minimize the number of passages of heavy equipment over roots of trees to be protected in the area. The Work shall proceed sequentially along the trail: clearing (mostly complete) grubbing, then topsoil stripping and side casting or removal, mineral soil excavation to subgrade over a short section immediately followed by placing the geotextile, and placing of sub-grade material. Trucks bringing granular fill into the trail shall be used to back haul excess soil from the site. The subgrade not being tracked by machines and not left exposed overnight."
- Q49.** 31 14 13; 3.4.5 – Please confirm if this material is to go to J.Robbins.
- A49.** If deemed unsuitable, the offsite disposal location will be J. Robbins
- Q50.** 31 14 13; 3.4.9 – Please confirm if windrow material to be used to dress the shoulders is paid under payment item 13.
- A50.** Yes, windrow material to dress shoulders is to be paid under payment item 13, however note that windrowing is not anticipated on the slope due to space constraints and stability considerations.
- Q51.** 31 14 13; 3.7.7 – Please confirm how payment of placing of "wood chips along the trail edge" is to be paid. Are the wood chips supplied by Parks Canada?
- A51.** Supplied by Parks. See revised table of quantities.
- Q52.** 31 23 33; 1.4.1 – Please confirm the contractor is required to engage a Professional Engineer to "carry out to design and inspect shoring, bracing and temporary excavation slopes required", for the construction of the IFT design as currently presented only.
- A52.** The contractor is required to engage a Professional Engineer for temporary works as required by legislation and as a component of the construction sequencing planning process as described in
-

the specifications 01 33 00.

In general, it is expected that the contractor's geotechnical engineer would maintain a heavy presence at site during construction, particularly during excavation in the mid-slope area and excavation for the buttress. Refer to response to Question 13 above.

**Q53.** 31 23 33; 3.6.10 – Please confirm the DR or the Geotechnical Engineer appointed and paid for by Parks Canada will be approving subgrade.

**A53.** Confirmed.

**Q54.** 31 24 13; 1.1.1.3 - There is no separate payment item for this in the Combined Price Table. Please confirm how this will be paid.

**A54.** Refer to Questions 24 to 39

**Q55.** 31 24 13; 3.5.3 – Rock Excavation, There is no separate payment item for this in the Combined Price Table. Please confirm how this will be paid.

**A55.** See new payment item 55 added to Combined Price Table.

**Q56.** 31 93 02 – Invasive Species Control, There is no separate payment item for this in the Combined Price Table. Please confirm how this will be paid.

**A56.** See new payment item 70 added to Combined Price Table.

**Q57.** 32 17 23 – Pavement Markings, I cannot see any requirement for and here is no separate payment item for this in the Combined Price Table. Please confirm location of this work how this will be paid.

**A57.** Incidental to highway works, no marking on trail

**Q58.** 32 17 25 – Traffic Signage, I cannot see any requirement for highway signage, and there is no separate payment item for this in the Combined Price Table. Please confirm where this signage is required.

**A58.** No Highway Signage is anticipated.

**Q59.** 32 31 14; 1.1.2 – Log Rails, I cannot see any requirement for and there is no separate payment item for this in the Combined Price Table. Please confirm how this will be paid.

**A59.** 32 31 14 Clause 1.1.2 and 2.1 has been removed, see revised specifications

**Q60.** 32 32 34; 1.1.2 – Please confirm the costs associated with Titan Environmental “support”. Titan are not the only supplier of this product. Are we able to engage a representative from an alternate supplier?

**A60.** 32 32 34 (Retaining Walls) Clause 1.1.2 has been revised to the below, see revised specifications

“Price shall include costs associated with construction of a three tier mock-up Envirogrid wall a minimum of 5 m long (i.e. two panel lengths) at the final approved location of Rest Area 5, or alternative location within the Park Reserve that is approved by Parks. Titan Environmental, supplier of the Parks owned Envirogrid Panels, could be requested to attend site to assist (at the contractor's cost). All materials and equipment shall be free of invasive species.”

32 32 34 (Retaining Walls) Clause 1.2.1.2 has been revised to the below, see revised specifications

“Quality control during fabrication, delivery, and construction of the MSE Wall. As a component of the QC program, the contractor shall demonstrate that wall construction procedures are consistent with the supplier's recommended installation procedures and the wall design shown on the drawings through construction of a three tier mock-up Envirogrid wall a minimum of 5 m long (i.e. two panel lengths) at a location approved by Parks. The Owner's Geotechnical Engineer is to be

present for construction of the mock-up. Wall construction procedures are to be approved by the Owner's Geotechnical Engineer prior to commencement of construction of the specified walls. Titan Environmental, supplier of the Envirogrid Panels, is a potential resource."

**Q61.** Payment Item 50 – Please provide specification.

**A61.** See Spec 32 31 14, Clause 2.1 and Drawing SD-04

32 31 14 Clause 1.1 has been revised to the below, see revised specifications

.1 The unit prices bid for the wood safety railings shall be full compensation for all work necessary and incidental including but not limited to the setting of posts, hardware, cutting, drilling, and installation of wood fencing and railings to the dimensions, lines, and grades indicated in the Drawings and as directed by the DR.

.2 The unit prices bid for the 1400 mm high safety railings, shall include, but not be limited to, supply and delivery of materials, setting poles in post holes and backfilling, cutting and fitting, drilling holes, fastening, and all other associated work to complete the installation.

.3 Measurement for payment for the safety railings shall be linear metre along the top rail of the barriers installed and accepted by the DR."

32 31 14 Clause 2.1 has been revised to the below, see revised specifications

"Wood Safety Rails

.1 The Contractor will supply the following lumber for the safety rails located above retaining walls and steep slopes:

.1 295 pieces 38mm X 140mm X 2450 mm wood railings.

.2 50 pieces 38mm X 140mm X 2600 mm wood railings.

.3 74 pieces 140mm X 140mm X 1500 mm wood posts.

.2 Galvanized steel nuts, bolts, washers, spiral spikes to CSA G164.

.3 The lengths of posts that will come into direct contact with the soil shall be treated with a non-toxic wood preservative and permitted to cure before returning."

**Q62.** Payment Item 47 - Please provide specification for trail signage.

**A62.** See Drawings SD-03 and Specification 32 17 25

**Q63** In regards to bid item 50, Wood Safety Railings

The 140mm x 140mm fence posts will be too large to fit inside of the 150mm diameter pipe

**A63** Fence posts are to be connected to galvanized channel with two galvanized nut, washer, bolts per drawing SD-04 and not inserted into 150mm diameter pipe.

**Q64.** In regards to bid item 50, Wood Safety Railings

Is the galvanized channel supposed to be bolted up at the bottom? Or is the pipe sleeve to be encased in concrete and left unbolted at the bottom?

**A64.** Galvanized channel to be bolted to fence post at top with the bottom of channel incased in concrete in pipe sleeve.



### **C. Tender Package Revisions**

**ADD:** DSP2\_20-0443

Changes in the revised specifications are outlined in **red**, items crossed out in red are removed from the specification.

011100\_General\_Instructions - Addendum 1  
013543\_Environmental\_Procedures - Addendum 1  
013544\_Cultural\_Resource\_Procedures - Addendum 1  
311100\_Clearing\_Grubbing - Addendum 1  
311413\_Trail\_Work\_Soil\_Stripping\_and\_Stockpiling - Addendum 1  
323114\_WOOD\_FENCE\_AND\_RAILINGS - ADDENDUM 1  
323234\_RETAINING\_WALLS - ADDENDUM 1

### **D. APPENDIX 1 – COMBINED PRICE FORM (see following page)**

**THE ATTACHED PRICE FORM MUST BE USED IN ORDER FOR A BID TO BE DEEMED RESPONSIVE. ANY BIDS SUBMITTED USING THE PREVIOUS PRICE FORM WILL NOT BE ACCEPTED.**

**CHANGES ARE SHOWN IN RED.**

**Delete:** *APPENDIX 1 – COMBINED PRICE FORM* in its entirety

**Replace with:** See attached below

**ALL OTHER TERMS & CONDITIONS REMAIN UNCHANGED**

## APPENDIX 1 - COMBINED PRICE FORM

- 1) The prices per unit will govern in establishing the Total Extended Amount. Any arithmetical errors in this Appendix will be corrected by Canada.
- 2) Canada may reject the bid if any of the prices submitted do not reasonably reflect the cost of performing the part of the work to which that price applies.

Note: Bidders are reminded that it is their responsibility to include in their bid all work as described in the drawings and specifications. Pricing for work not accounted for in the Unit Price Table including but not limited to Mobilization, De-Mobilization, etc. is to be included in the Lump Sum Table.

### COMBINED PRICE TABLE

The Unit Price Table designates Work to which a Unit Price Arrangement applies.

- (a) Work included in each item is as described in the referenced specification section.
- (b) The Price per Unit shall not include any amounts for Work that is not included in that unit price Item.

Item	Specification Reference	Class of Labour, Plant or Material	Unit of Measurement	Estimated Quantity (EQ)	Price per Unit applicable tax(s) extra (PU)	Extended amount (EQ x PU) applicable tax(s) extra
<b>A. General Requirements</b>						
1	01 25 20	Mobilization and Demobilization	Lump Sum			\$
2	01 35 00	Special Procedures and Traffic Control	Lump Sum			\$
3	01 45 00	Quality Control	Lump Sum			\$
4	01 35 43	Large Spill Kits (110% of equipment fluids)	Each	2	\$	\$
5	01 35 43	Standby Materials (Quantities in Table 2 - light and heavy duty silt barrier, stakes, erosion control blanket, sandbags, poly sheeting, crushed rock, pea gravel, safety fencing, filter bags, Sorbent booms)	Lump Sum			\$
<b>Section A Subtotal</b>						\$
<b>B. Clearing and Earthworks</b>						
6	31 11 00	Remove previously felled trees from the trail alignment	Lump Sum			\$
7	31 11 00	Tree Removal	each	1	\$	\$
8	31 11 00	Clearing	m2	3,700	\$	\$
9	31 11 00	Grubbing	m2	3,700	\$	\$
10	31 14 13	Trail waste excavation – <b>Not for reuse</b>	m3	5,300	\$	\$

Item	Specification Reference	Class of Labour, Plant or Material	Unit of Measurement	Estimated Quantity (EQ)	Price per Unit applicable tax(e)s extra (PU)	Extended amount (EQ x PU) applicable tax(e)s extra
<del>11</del>	<del>31 14 13</del>	<del>Trail waste excavation – Non-organic material</del>	m3	<del>3,950</del>	<del>\$</del>	<del>\$</del>
12	31 32 19	Erosion control blanket installation (C32BD ECB supplied by PCA, Re-bar U-Hooks supplied by Contractor)	m2	1,350	\$	\$
13	01 35 43	Organic soil spreading on embankment (minimum 150mm thick)	m3	315	\$	\$
14	31 14 13	Wood Chips (Crash Pad at upper switchback)	m3	10	\$	\$
14A	31 14 13	Wood Chips (Placement on trail shoulder)	m3	26	\$	\$
<b>Section B Subtotal</b>						\$
<b>C. Aggregate</b>						
15	32 12 16	Asphalt 75mm Thick (Highway)	m2	210	\$	\$
16	32 12 16	Asphalt 50mm Thick (Trail)	m2	2,200	\$	\$
17	32 11 23	Granular Base Course 100mm Thick (Highway)	m2	250	\$	\$
18	32 11 23	Granular Base Course 100mm Thick (Trail)	m2	2,700	\$	\$
19	32 11 10	Granular Sub-base Course 300mm Thick (Trail) (75 mm Pit Run)	m2	1,000	\$	\$
20	32 11 10	Granular Sub-base Course 450mm Thick (Trail) (75 mm Pit Run)	m2	1,000	\$	\$
21	32 11 10	Granular Sub-base Course 450mm Thick (Highway) (75 mm Crushed Granular Subbase)	m2	290	\$	\$
22	31 24 13	Subgrade / Embankment Fill (Adjacent to Buttress - 75 mm Crushed Granular Subbase)	m3	1,650	\$	\$
23	32 11 10	Crushed Granular Sub-base Course (Buttress)	m3	620	\$	\$
24	31 32 19	Uniaxial geogrid TE-UX20PET (Buttress) (geogrid material supplied by PCA.)	m2	1,900	\$	\$
25	31 32 19	Uniaxial geogrid TE-UX150PET (Buttress)	m2	800	\$	\$
26	32 11 10	Crushed Granular Sub-base Course (Midslope Fill)	m3	660	\$	\$
27	31 32 19	Biaxial Geogrid TE-BX20PP (Midslope)	m2	2,000	\$	\$

Item	Specification Reference	Class of Labour, Plant or Material	Unit of Measurement	Estimated Quantity (EQ)	Price per Unit applicable tax(e)s extra (PU)	Extended amount (EQ x PU) applicable tax(e)s extra
28	31 32 19	Composite Geogrid TE-BXC30 or Equivalent	m2	1,500	\$	\$
29	31 32 19	Non-woven Geotextile Aremtec 200 or Equivalent	m2	400	\$	\$
30	31 37 00	Class 10 Riprap	m3	100	\$	\$
31	31 05 15	Boulder Facing on steep cut slopes (0.5m to 1m Dia.) - Includes individually placed boulders at select locations	m3	65	\$	\$
32	31 37 00	Drainage Blanket - 150mm Open Graded Angular Rock, inclusive of Non-Woven Geotextile (TE-6)	m3	100	\$	\$
32A	31 32 19	Non-woven Geotextile Wrap TE-6 or Approved Equivalent	m2	400	\$	\$
<b>Section C Subtotal</b>						\$
<b>D. Culverts and Drain Pipe - Supply and Install complete with bedding gravel</b>						
33	33 42 13	8m X 600mm HDPE Culvert	each	3	\$	\$
33A	33 42 13	8m x 750mm HDPE Culvert	each	1	\$	\$
33B	33 42 13	8m x 250mm HDPE Culvert	each	3	\$	\$
34	33 42 13	10m x 600mm HDPE Culvert	each	1	\$	\$
35	33 42 13	19.8m x 600mm CSP Culvert	each	1	\$	\$
36	33 42 13	200mm Perforated Drain Pipe	m	55	\$	\$
<b>Section D Subtotal</b>						\$
<b>E. Walls</b>						
37	32 32 34	Envirogrid Retaining Walls with Uniaxial Geogrid Reinforcement Includes Infill Material (Envirogrid units & Uniaxial geogrid units supplied by PCA.)	m2	280	\$	\$
37A	32 32 34	Envirogrid (supplied by PCA.)	each	1,100	\$	\$
37B	31 32 19	Uniaxial geogrid TE-UX20PET (Wall) Geogrid material supplied by PCA.)	rolls	31	\$	\$
38	32 32 34	Biaxial Geogrid TE-BX20PP (Reinforced Foundation Pad)	m2	250	\$	\$

Item	Specification Reference	Class of Labour, Plant or Material	Unit of Measurement	Estimated Quantity (EQ)	Price per Unit applicable tax(s) extra (PU)	Extended amount (EQ x PU) applicable tax(s) extra
39	32 32 34	Composite Geogrid TE-BXC30 or Equivalent (Reinforced Foundation Pad)	m2	270	\$	\$
40	32 32 34	100mm Perforated Drain Pipe	m	65	\$	\$
41	32 32 34	100mm Solid Drain Pipe	m	20	\$	\$
42	31 32 19	Non-woven Geotextile <b>TE-6</b> or <b>Approved</b> Equivalent (wrapping pipes)	m2	130	\$	\$
43	32 32 34	Crushed Granular Sub-base Course (Foundation Pad)	m3	200	\$	\$
<b>Section E Subtotal</b>						\$
<b>F. Barriers, Signage, and Railings</b>						
44	34 71 13	Concrete Barrier CRB 2.5m long (Precast)	each	37	\$	\$
45	34 71 13	Concrete Barrier Transition CTB 2.5m long (Precast)	each	1	\$	\$
46	34 71 13	Concrete Barrier Bullnose CBN 1.2m long (Precast)	each	1	\$	\$
47	32 17 25	Sign mounted on curved steel post and precast concrete base	each	9	\$	\$
48	32 17 25	Temporary static project signs, 1220X2440 on timber posts, supply, install, maintain, and remove	each	2	\$	\$
48A	32 17 25	<b>Changeable message signs, supply, install, maintain, and remove</b>	Month	2	\$	\$
49	32 17 25	Relocate existing sign on concrete barrier to new barrier	each	1	\$	\$
50	32 31 14	Wood safety railings 1400 mm high	m	175	\$	\$
<b>Section F Subtotal</b>						\$
<b>G. Miscellaneous</b>						
51	32 12 16	Roadbox for slope inclinometer (and replacement of existing road box at BH17-09)	each	2	\$	\$
52	32 01 16.9	Asphalt Saw cutting and removal pavement edge	m	120	\$	\$
53	32 01 19.9	Asphalt Saw cutting and Removal for Highway Culvert	m	20	\$	\$
54	32 11 24	Removal and Rehabilitation of Temporary Accesses	each	2	\$	\$
<b>Section G Subtotal</b>						\$

Item	Specification Reference	Class of Labour, Plant or Material	Unit of Measurement	Estimated Quantity (EQ)	Price per Unit applicable tax(s) extra (PU)	Extended amount (EQ x PU) applicable tax(s) extra
<b>H. Archaeological Site Excavations and Fills</b>						
55	01 35 44	Organic Soils excavation and spreading in Archaeological site (0.30m thick)	m3	174	\$	\$
56	01 35 44	Organic Soils excavation - storage and recording	m3	20	\$	\$
57	01 35 44	Mineral Soil excavation and fill in Archaeological Sites (imported fill from historical road included in volume)	m3	174	\$	\$
58	01 35 44	Mineral Soil excavation in Archaeological Sites - storage and recording	m3	10	\$	\$
59	01 35 44	Mineral Soil excavation in Archaeological Sites - disposal	m3	10	\$	\$
<b>Section H Subtotal</b>						\$
<b>I. Environmental Procedures - Supply, Install, &amp; Remove - above that required for Standby Equipment and Materials (Provisional Items)</b>						
60	01 35 43	Pre-Staked Silt Fence Barrier (SI&R)	Lin.m	100	\$	\$
61	01 35 43	Erosion Control Blanket (C32BD) (SI&R)	sq.m	150	\$	\$
62	01 35 43	Poly or Nylon Sand Bags (SI&R)	Each	50	\$	\$
63	01 35 43	Poly Sheeting (6 mm) (SI&R)	sq.m	150	\$	\$
64	01 35 43	Rock Check Dam (SI&R)	Each	2	\$	\$
65	01 35 43	1.4 m high orange safety fence (SI&R)	Lin.m	50	\$	\$
66	01 35 43	2.29 m X 2.29 m Small Wetland Filter Bag (SI&R)	Each	10	\$	\$
67	01 35 43	4.57 m X 4.57 m Large Wetland Filter Bag (SI&R)	Each	10	\$	\$
68	01 35 43	50mm trash pump + 61 m discharge hose	Daily	10	\$	\$
69	01 35 43	75mm trash pump + 61 m discharge hose	Daily	10	\$	\$
<b>Section I Subtotal</b>						\$
<b>J. Miscellaneous</b>						
70	31 93 02	Invasive Species Control Program	Lump Sum			\$
<b>Section J Subtotal</b>						\$

<b>Section A Subtotal</b>	\$
<b>Section B Subtotal</b>	\$
<b>Section C Subtotal</b>	\$
<b>Section D Subtotal</b>	\$
<b>Section E Subtotal</b>	\$
<b>Section F Subtotal</b>	\$
<b>Section G Subtotal</b>	\$
<b>Section H Subtotal</b>	\$
<b>Section I Subtotal</b>	\$
<b>Section J Subtotal</b>	\$
<b>TOTAL BID AMOUNT (A+B+C+D+E+F+G+H+I+J)</b> Excluding applicable tax(es)	\$