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National Contracting Services
220 - 4 Avenue S.E., suite 720
Calgary, AB T2G 4X3
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AMENDMENT / MODIFICATION 004

Tender To: Parks Canada Agency
 We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

Soumission aux: l'Agence Parcs Canada
 Nous offrons par la présente de vendre à Sa Majesté la Reine du Chef du Canada, aux conditions énoncées ou incluses par référence dans la présente at aux annexes ci-jointes, les biens, services et construction énumérés ici et sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments - Commentaries

Vendor/Firm Name and Address
 Raison sociale et adresse du fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution

Parks Canada Agency
220 - 4 Avenue S.E., suite 720
Calgary, AB T2G 4X3
Bid Fax: (866)246-6893

Title-Sujet Tunnel Mountain Village 1 Rehabilitation – Banff National Park		
Solicitation No. - No. de l'invitation 5P420-18-0210/A	Date: August 14, 2018	
GETS Reference No. – No de reference de SEAG PW-18-00836655	Amendment No. - N° de la modif. 004	
Solicitation Closes:		
at – á 02:00 PM	on – le August 23, 2018	Time Zone - Fuseau horaire MDT - HAR
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input type="checkbox"/>		
Address Inquiries to: - Adresser toute demande de renseignements à : Andrea Major andrea.major@pc.gc.ca		
Telephone No. - No de téléphone (403) 292-5451	Fax No. – No de FAX: (866) 246-6893	
Destination of Goods, Services, and Construction: Destinations des biens, services et construction: See Herein – Voir ici		

TO BE COMPLETED BY THE BIDDER (type or print)

Vendor/Firm Name	
Address - Adresse	
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	
Titale - Titre	
Telephone No. - N° de telephone:	_____
Facsimile No. - N° de télécopieur:	_____
Signature	Date

Amendment 004

This amendment is being raised to publish meeting minutes from the bidders' conference held Thursday, August 2, 2018 and to answer questions posed by potential bidders in the period following the bidders' conference.

Attendees

Matthew Whalen – Parks Canada
Nathaniel Harrison – Parks Canada
Andrea Major – Parks Canada
Mary Benjamin – Parks Canada
Daniel Fowler - McElhanney
Simon – McElhanney
Michael Simonot - Everest Construction Management Ltd.
Sam Allen - Bremner Engineering and Construction Ltd.
Barry Zaitsoff - Martech Electrical Systems Ltd
Christine Godby - Roughrider International
Brian Paskin, Shawn Cockerill - W.Downer Holdings Ltd.
Kieran Keyes, Joe Berard - Slimdor Contracting Ltd.
Stan Subert - Thompson Infrastructure Ltd.
Ivan Gustafson - Eagle Rock Construction
Shrenik Shah - Standard General Inc.

General Notes:

- Cut-off Date for Questions: August 9, 2018 (end of day)

Items for discussion

Overview of Work

- Provided overview of work to be completed. Complete replacement of all water, sanitary, electrical, gas and some communication systems within Village 1 campground and some upgrades to adjacent areas to support Village 1 upgrades.
- Restoration is also a significant portion of the contract.

Construction Schedule

- Contractor shall take close look at item 1.7 Work Sequence within the Summary of Work section of the specifications
 - Schedule in specification has been assembled to accommodate operational requirements and seasonal utility shut downs.
 - Schedule as provided in specs accounts for winter water service shut down in Trailer Court Campground
 - Close attention to completion dates to meet campground opening dates and meeting servicing requirements for other
- Work is expected to continue through winter 2018/19
- Parks Canada recognizes the schedule is aggressive; the contractor is expected to resource the project accordingly to meet the timelines noted.

Campground Restoration:

- Contract is set up so that the contractor is responsible for clearing, stripping and rehabilitating all areas disturbed under various items in the bid table. The aim of this is to encourage the contractor to minimize disturbance footprint.
- Contractor should complete all work within localized areas allow for immediate restoration of areas when work is completed (relevant outside winter work).

Upcoming Tender Addendums

- Geotechnical Report completed by Thurber Engineering to be uploaded on Buy and Sell on August 3, 2018.
- Air Release Valves: standpipe/spigot to replace underground air release valve chambers
- Fortis Electrical offsets to be increased in design:
 - Min 2.5m offset required between Fortis primary lines and water/sanitary utilities
 - Min 1.0m offset required between Fortis primary lines and all secondary utilities
 - Will affect disturbance and restoration requirements.
 - Updated drawings showing the alignment changes will be available on Buy and Sell on August 9, 2018.
- Question previously asked by contractor by email.
 - Regarding item '2.6 Water Meter Bypass Chamber' on page 202 of specifications document.
 - Question: Contractor would like to know if it'd be acceptable to use "CEM-KOTE CW PLUS crystalline waterproofing" instead of "Xypex waterproofing"
 - Response: Alternative waterproofing products in this case will be approved as long as they meet ANSI/NSF Standard 61. CEM-KOTE CW PLUS is approved for use in potable water facilities as per ANSI/NSF Standard 61 – Barrier Materials.

Questions Raised by Contractors in Meeting

Question 1: What is the timeline for award? Timeline for award will affect ability to meet October 1, 2018 completion date for Trailer Court Installations. October completion date is aggressive.

Answer 1:

- Contract award is typically possible within a few days of receiving all contractor submittals identified as required in order to issue the contract. The contractor is encouraged to provide those submittals as quickly as possible to avoid delays in tender award.
- October 1 completion date for Trailer Court work is required to allow water system commissioning prior to winter shut down of Trailer Court water system. Date may be able to be extended if weather allows however Parks Canada will not guarantee this.
- Also of interest, the water system upgrades required to be completed within Trailer Court prior to October 1, 2018 are fairly minimal. Only the water system components required to operate the Trailer Court water system normally are required to be completed on this timeline to allow for handover of that system prior to the 2019 operating season.

Question 2: Can Parks Canada comment on the design of the water and sanitary system design within Village 1 campground?

Answer 2: Design was completed with the following considerations:

- Water and sanitary systems are only seasonally used; they are shut down through the winter months. As such, they are not required to be deep buried as you'd see otherwise locally.
- The water system is designed to mimic sanitary system as best as possible to allow for most of the system to be easily drained each fall using gravity to the low point of the site.
- The water system was designed to allow for future expansion to the east if desired.
- The overall design was completed with the intention of minimizing infrastructure and consolidating multiple utilities into corridors to reduce overall disturbed footprint and utilize existing disturbed areas wherever possible.

Question 3: For the sanitary line between MH 107A to S22, is the intention to replace entire manholes or just manhole covers? What is the rationale behind the rehabilitation work in that area.

Answer 3:

- The sanitary pipes through this area were found to be in mostly good condition with the exception of the issues identified for repair on the drawings. The manholes through this area however were found to have several issues requiring attention. Manhole lids were too small, preventing necessary access for maintenance work and the overall condition of those manholes was found to be poor.
- The sanitary line between MH 107A and S22 is critical to the operations of Trailer Court and is to be brought to a state allowing long term reliable service.
- To ensure the long term reliable operation of the sanitary system, all manholes are to be completed replaced between MH 107A and S22 as shown on the drawings.

Question 4: Can profile drawings be provided for sanitary line between Trailer Court and Lift Station?

Answer 4: McElhanney will provide a plan/profile drawing for the sanitary line between MH 107A and S22 as well as a typical cross section drawing for the sanitary line as part of the August 9 tender addendum drawings.

Question 5: Prime cost sum is identified in the bid table, but the amount is not shown in the bid table. Should the contractor just use the value identified in the specification package?

Answer 5: Section 01 21 00 Allowances of the specifications identifies a Prime Cost Sum amount of \$700,000.00. Bidding contractors should insert this amount into the bid table for line A 2.

Question 6: Which item should clearing and grubbing cost be put under?

Answer 6:

- Item 1.2.1 in Section 31 11 00 Clearing and Grubbing of the specifications states "Clearing and grubbing will not be measured separately and will be incidental to the Work. Including removal of waste from the Park. Loading, hauling and disposal of clearing and grubbing waste."
- Clearing and Grubbing is considered incidental to the corresponding work for which the clearing and grubbing is necessary in order to complete. The contractor shall include the costs of clearing and grubbing in the bid table items of their choosing, however Parks Canada must approve a breakdown of any items being partially claimed to recover Clearing and Grubbing costs prior to the main work being completed under those items.

Question 7: For waste material and hauling excess material from site. Does this coincide with bid items B3 and B4 in the bid table?

Answer 7:

- Bid table items B3 and B4 are to be used for hauling excess gravels and native soil material from the site as required to return the site to the desired state following construction. This includes existing road gravels required to be removed for road reconstruction (Item B3) and excess native soils as a result of road cuts or trenching (B4).
- Removal of asphalt is to be incidental to the asphalt removal items and is not to be charged under items B3 or B4.
- Removal of any construction waste or existing components are considered incidental to the corresponding work items and are not to be charged under items B3 or B4.

Question 8: Regarding asphalt removal from site. Where is it to be removed to? Is the contractor responsible for disposing outside the Park?

Answer 8: All pavement is to be removed to outside the Park as part of the cost under Item B2 of the bid table. Contractor is responsible for securing a suitable location to dispose of asphalt material outside of the Park.

Question 9: What is the oil grade requirement for asphalt?

Answer 9: Asphalt requirements are specific to the mix design. A PG 58-28 asphalt binder is specified with a maximum 10% RAP.

Question 10: Who provides survey and quality control? Materials testing, etc. Does Parks Canada's engineer provide this?

Answer 10: The contractor is responsible for providing all survey required for construction as well as all Quality Control testing for the project. Parks Canada's engineer will only be conducting survey to verify the contractor's claimed quantities and installations and Quality Assurance testing on behalf of Parks Canada.

Question 11: Is the contractor required to provide site office for the engineer and client?

Answer 11:

- Item 1.3 Office Trailer in Section 01 52 00 Construction Facilities of the specifications states "Supply and maintain Departmental Representative's office trailer for the duration of the contract."
- The contractor is required to provide a site office for Parks Canada's engineer for the duration of the project. Additional office space is not required for Parks Canada staff.

Question 12: Are you confident the survey location of the existing utilities is accurate.

Answer 12:

- Survey of the existing utilities has been completed within the last year and is expected to be accurate within reason. Due to the age of the existing utilities however, the contractor can expect minor variances from what is shown in the drawings.
- The contractor shall verify critical utility locations (such as tie in points, abandonment locations, etc) prior to beginning work on the system to remove any concerns of inaccuracies.
- The utility systems are old and have undergone extensive repairs, patching, etc in past years. The contractor can expect variances in materials, fittings and other changes from what is shown in the existing utilities drawings. Minor variances in the existing system will not be grounds for additional costs.

Question 13: Drawings show new lines to be installed through existing manholes. Will removal or replacement be required? Can we confirm this is accurate?

Answer 13:

- In areas where trenching for new services are shown to pass through existing manholes locations, the entire manhole structure is to be removed. New utilities, including sanitary lines are to be installed on the alignments shown in the drawings
- In areas where no new utilities are to pass through existing manhole locations, the manhole can be abandoned as per the manhole abandonment detail drawings.

Question 14: Douglas Firs appear to be protected. Are only mature Douglas Fir trees to be avoided or are all (including small) to be avoided as well?

Answer 14:

- Utilities have been planned to avoid Douglas Fir trees; preliminary staking out has been completed and alignments have already been adjusted as required. We do not anticipate any additional issues.
- The contractor shall layout the alignments and identify any anticipated conflicts to Parks Canada for consideration.
- The unit rate items for utility installations allow for payment of realigned utilities to avoid Douglas Fir trees or other obstacles if required.

Question 15: Is the sanitary line which is being abandoned under the main access road to be grouted? Where is pay item for completing this work? Which pay item is this to be included under?

Answer 15:

- Removal and abandonment of all existing sanitary system components identified in the drawings is incidental to bid items D1 and D2. This includes the grouting and abandonment of the existing sanitary line under the main access road as specified in the drawings.

- Failure to complete all abandonments and removals as identified will be identified as a deficiency when evaluating the release of holdback at substantial completion.
- See Item 1.1.1 in Section 33 31 11 Public Sanitary Sewerage Gravity Piping of the specifications.

Question 16: What is the intent for the 50mm overbuild required in lower loops of Village 1. What is the purpose?

Answer 16: The 50mm gravel overbuild is required to allow for roadways to be passable by visitors during the 2019 summer operating season. Gravel overbuilding rather than immediate paving was selected to alleviate the contractor's construction schedule and to allow for trench settlement prior to paving. Pavement to be placed in fall 2019.

Questions Raised by Bidders by Email After Meeting

Question 17: Can you clarify what you want for the Sanitary pipe under the main road. Drawing C-117 says "to be filled with grout, plugged and abandoned in place". Drawing C-303 show a plug with 500mm of grout. Are you looking for the entire pipe to be fill with grout; or plug and grout at the MH as per Drawing C-303 Detail 5 and 6?

Answer 17: The entire existing Sanitary Pipe under the main roadway is to be filled with grout. Details 5 and 6 on Drawing C-303 should still be used at manhole locations in the roadway, but grouting is to be completed in the existing sanitary pipe between the plug locations.

Question 18: Can you clarify if the painted pavement message "STOP" is required to be installed with the stop bars on this project.

Answer 18: "Stop" is not required to be painted on the pavement at the stop bars.

All other terms and conditions remain unchanged.