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**SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION**

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

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

Comments - Commentaires

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

Issuing Office - Bureau de distribution
Public Works and Government Services Canada - Pacific
Region
800 Burrard Street, Room 219
800, rue Burrard, pièce 219
Vancouver
British C
V6Z 0B9

Title - Sujet Rock Slope Stabilization North Side	
Solicitation No. - N° de l'invitation EZ108-210671/A	Amendment No. - N° modif. 004
Client Reference No. - N° de référence du client	Date 2020-10-06
GETS Reference No. - N° de référence de SEAG PW-\$PWY-039-8831	
File No. - N° de dossier PWY-0-43090 (039)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2020-10-15	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Park (PWY), Isabell	Buyer Id - Id de l'acheteur pwy039
Telephone No. - N° de téléphone (604) 365-0073 ()	FAX No. - N° de FAX () -
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: PWGSC - Esquimalt Graving Dock - Victoria, BC	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

"THIS DOCUMENT CONTAINS A SECURITY REQUIREMENT"

Amendment 004

This amendment is issued to publish Question and Answer.

Questions and Answers

Q1: How will old and new mesh overlap?

A1: Refer to drawings. Rolled cable net will cover existing mesh.

Q2: What are the length of bolts?

A2: Refer to anchor table.

Q3: Can the existing interior mesh be cut in small areas to allow for easier drilling?

A3: Yes, in localized areas only, under review by Departmental Representative.

Q4: What type of plates are to be used?

A4: Spike plates.

Q5: Can the anchors use grout or resin to be fixed in place?

A5: Cement based grout was specified in the tender documents (Section 31 68 13 – 2.1.7.5). However, the Contractor can propose alternative materials for review, provided they can demonstrate the minimum requirements of the specification can be met. The Departmental Representative must review and approve all alternative materials prior to use. Proof testing shall be performed as per the specification to verify the required anchor capacity has been achieved.

Q6: Is the mesh to be pulled into the rock face?

A6: Yes, the mesh is to be pulled tight against the rock face.

Q7: What are the length of the mesh sections?

A7: Refer to the drawings.

Q8: What geotextile is to be used?

A8: A mediumweight nonwoven geotextile is to be used, such as the Mirafi 160N or equivalent alternative.

Q9: What is the type of mesh to be used on the bottom half of area A?

A9: Refer to the specifications.

Q10: Will the items at the base of area A remain?

A10: The larger fixed items will remain and need to be protected during construction. The smaller temporary items will be removed.

Q11: Can Trees be removed?

A11: No. Any tree removal that will be requested during construction will need to be approved by the Departmental Representative prior to doing so and will need to have compensation replanted. This will be assessed with the EA team during construction.

Q12: Will the Seacan at the base of area b be removed be removed?

A12: Yes, the seacan and other large non-permanent items at the base of area B will be removed by EGD

Q13: Where are the anchor locations for area B?

A13: Anchor locations will be finalized during construction with the Geotechnical engineer; however, approximate locations are provided in the anchor table. The top rope anchors shall be located at least 1m beyond the crest of the slope. To facilitate anchor installation, the Contractor can choose to locate anchors farther from the crest and connect the steel top rope using wire rope lanyards as shown on Detail 8 on drawings G108.

Q14: Does the mesh at area B go behind the lock blocks?

A14: A seam of the mesh is to go behind the lock blocks to allow for overlap.

Q15: Is the vegetation to be cut or grubbed?

A15: No, the vegetation at the top of Areas A and B is not to be cut down or completely grubbed out. However, if there are individual plants (e.g. bushes) that need to be removed by the Contractor for access to the areas, this can be considered case by case. Any vegetation removal required will need to be approved by the Departmental Representative prior to and will need to have compensation replanted. This will be assessed with the EA team during construction.

Q16: Can the areas at the base of construction be closed to non-project workers.

A16: The approved construction area will be restricted to non-project staff. Should access be required for operational reasons permission will be requested by the EGD. The Emergency egress access must be maintained for building # 2029. Access to enter/exit the storage room at the Northwest corner of the pumphouse at area B must be maintained.

Q17: can staging areas include: lot b, b1 and at the base of section b.

A17: Laydown will either be provided in Lot B, near building 2005 or at the base of area B. Location will be decided at the time of contract award.

Q18: what is the depth of soil at the top of area B?

A18: Based on visual review of the slope crest, the thickness of soil may be assumed to be 1m.

Q19: what is the length of lanyards for area b?

A19: The length of lanyards will depend on whether the Contractor prefers to install anchors 1m beyond crest of slope, or locate anchors closer to the road and use lanyards to hang the top rope. The Contractor can estimate their required lengths (depending on their preferred working means and method) from the topo survey.

Q20: Can the completion date be extended from 8 weeks after contract award?

A20: Completion date to be extended to 12 weeks after contract award.

Q21: Will access to water be provided?

A21: Yes

Email Questions

Q1: Please review the below spec as it seems to be abnormal and will be an issue. This should read 125% of the yield strength of the bar. As it reads now, we cannot supply and, as far as I know, no anchor supplier can. Please confirm.

.9 Standard hex nuts can be used to attach the spike plates to the anchors. In the event that uneven seating of the spike plate occurs; spherical nuts, ball nuts, or beveled washers should be used. Nuts and couplers of the anchors shall be made from steel material conforming to ASTM A563-15 and shall develop at least 125% of the guaranteed ultimate strength of the threadbar.

A1: Yes, this is a typo and should read "125% of the yield strength of the bar."

Q2: Commercially available wire rope comes in 3/4" diameter, are of 6x19 construction and has a breaking strength of 235 kN. This is shy of 279 kN in the spec. The next available size is 7/8" diameter, also 6x19 construction and has a break strength of 318 kN. While it is possible to supply the 7/8" wire rope, it is difficult to work with in the field due to the torqueing of the wire rope clips. Would 3/4" wire rope be acceptable?

A2: 3/4" (19mm) diameter 6x19 wire rope is acceptable.

Q3: Top rope wire rope anchors. Working load = 300 kN. Commercially available 1" wire rope is of 6x36 to make it easier to bend into an eye and has a break strength of 413 kN.. Would 6x36 be approved?

A3: 1" diameter 6x36 wire rope is acceptable.

Q4: Lateral and bottom wire rope anchors. Working load 150 kN. Would 7/8" single leg (break strength 318 kN) or 3/4" single leg (break strength 235 kN) wire rope anchors be acceptable? It is no problem to keep them all 1" as well.

A4: 3/4" single leg rope is acceptable for lateral and bottom wire rope anchors.

All other terms and conditions remain unchanged.