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**Bid Receiving Public Works and Government
Services Canada/Réception des soumissions
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Canada**
800 Burrard Street, Room 219
800, rue Burrard, pièce 219
Vancouver
British Columbia
V6Z 0B9
Bid Fax: (604) 775-9381

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 EGD Waterlot Remediation PH2 SJetty	
Solicitation No. - N° de l'invitation EZ899-151108/B	Amendment No. - N° modif. 002
Client Reference No. - N° de référence du client	Date 2015-04-13
GETS Reference No. - N° de référence de SEAG PW-\$PWY-026-7485	
File No. - N° de dossier PWY-4-37180 (026)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2015-04-28	Time Zone Fuseau horaire Pacific Standard Time PST
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: Liu (PWY), Patty	Buyer Id - Id de l'acheteur pwy026
Telephone No. - N° de téléphone (604) 775-6227 ()	FAX No. - N° de FAX (604) 775-6633
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

Solicitation No. - N° de l'invitation

EZ899-151108/B

Client Ref. No. - N° de réf. du client

Amd. No. - N° de la modif.

002

File No. - N° du dossier

PWY-4-37180

Buyer ID - Id de l'acheteur

pw026

CCC No./N° CCC - FMS No/ N° VME

Amendment 002 / Addendum 002 attached.

All other terms and conditions remain unchanged.

AMENDMENT 002

Amendment 002 has been raised to provide documentation of the mandatory bidders conference and site visit, provide answers to questions, and to incorporate **ADDENDUM 002** (see below).

Company Names from Mandatory Bidders Conference (March 26, 2015):

Yetsa Construction
OXT Energy Corp
Milestone Env. Const.
TFN/Matcon/JV
Matcon Civil Constructors
Pacific Industrial and Marine
Acciona
Allterra Construction
Waste Management Corporation Services Inc.
Tsunup Ventures LP
JJM Construction Ltd.
Copcan Civil
TN&R Bridge
Envirocon
MNQM Contracting
Quantum Murray
Vancouver Pile Driving Ltd
Emery Electric
Tervita
Envirogreen
Fraser Pile and Dredge
Salish Sea
Ralmax Contracting
Denovo Construction
Jacob Bros. Construction
Golder Construction

Company Names from Mandatory Site Visit (March 26, 2015):

JJM Construction Ltd
Acciona
TN&R Bridge
TFN/Matcon/JV
Matcon Civil Constructors
Milestone Env. Const.
Tervita
MNQM Contracting
Quantum Murray
Allterra Construction
Vancouver Pile Driving Ltd
Envirocon

Arcadis-Franz
Tsunup Ventures Ltd
OXT Energy Corp
Pacific Industrial and Marine
Emery Electric
Golder Construction
Yetsa Construction
Jacob Bros. Construction
Vancouver Pile Driving Ltd
Denovo Construction
Copcan Civil
Fraser River Pile and Dredge
Salish Sea
Ralmax Contracting

Questions from the Mandatory Bidders Conference (March 26, 2015):

1. If the contractor is required to obtain the building permit, is the Township of Esquimalt aware of the project? Is there a set fee that can be provided to all contractors for the cost of the building permit?

Canada's Response:

Township of Esquimalt has a public document on their website indicating the fee basis; however the Unit Price Table will be re-issued with the anticipated building permit fee included, as part of Addendum 002.

2. Do the specifications provide a description of the work that can be done outside the fisheries window?

Canada's Response:

Section 01 11 55 (General Instructions), Clause 1.10 provides the description of work that can be completed outside the fisheries window. Additional information is provided in the Environmental Management Plan.

3. Is the measurement and payment of dredged sediment based on volume and not tonnage? What is the conversion assumed between volume and tonnage?

Canada's Response:

Measurement and payment for completion of sediment dredging, material handling, transport and disposal is paid for based on volume measured per Post-Construction Surveys completed at the EGD Work Site. No measurement and payment for these activities will be performed on a per tonne basis. Contractor shall determine their own conversion factor from volume to weight as part of the tender process for the project based on their means and methods for completion of the work.

Other questions received:

1. Can we get a list of the attendees of the mandatory pre-tender meeting and their contact information?

Canada's Response:

Yes, the list of companies who attended the mandatory bidder's conference is provided as part of Amendment 002.

2. Re: Appendix 6 – Qualification Form, 2.0 Bidder's Team Experience – Item 1 Dredging Experience. We request that the mandatory dredging experience criteria be changed to 30,000 m3 of mechanical dredging in total within the last 7 years, January 2008 to January 2015. We specialize in environmental dredging and as such the majority of our projects are smaller volumes (<10,000 m3) and are more sporadic in timing. We note that the specifications clearly indicate that this is not a production dredging job and therefore this high volume threshold is at odds with the nature of the project. We certainly have the capacity to dredge the required volume within the scheduled time. A criteria of 2500 – 5000 m3 within 30 days could be added if there is a concern about dredging productivity. Expanding the qualification period to 7 years would allow us to reference 4 significant mechanical dredging projects that we completed in 2008 and 2009.

Canada's Response:

The qualification criteria were developed to require that Bidders (and subcontractors) demonstrate appropriate experience with projects of similar size and complexity within a recent timeframe. The criteria for mandatory dredging experience and timeframe for completion of qualifying work will not be revised.

3. Item 5 – Engineered design for silt curtains. We suggest removal of this criteria as a mandatory requirement. On reviewing the specifications from the Phase 1B project we don't believe that there was a requirement for an engineered silt curtain. We have completed numerous projects that required the use of silt curtains, but a requirement to have the curtains "engineered" is new to us and we believe the BC dredging market in general. We don't think that it is reasonable to expect that BC dredging contractors will have this experience.

Canada's Response:

The successful design, construction and maintenance of the silt curtain system (Temporary Resuspension Barrier) is a critical part of the Phase 2 South Jetty Under-pier Sediment Remediation Project for environmental protection. The qualification criteria for the silt curtain system were developed to require bidders (and subcontractors) to demonstrate appropriate experience with design and implementation of these types of systems using site-specific parameters. The criteria for silt curtain systems will not be removed or revised.

4. Item 12 – Demolition Experience. We request that the time frame for demolition experience be widened to 7 years so that we can reference a major marine demolition project we completed between 2008 and 2010. We also request that this criteria be broadened to include land structure demolition as much of the pier demolition can be completed from the land side.

Canada's Response:

The qualification criteria were developed to require that bidders (and subcontractors) demonstrate appropriate experience within a recent timeframe. The criteria for demolition experience and timeframe for completion of qualifying work will not be revised.

5. Re: Appendix 6 – Qualification Form, 3.0 Superintendent Experience. We suggest that it is unduly restrictive to require the Superintendent/Project Manager to have all of the specific

experience indicated in Items 2 – 6 within the last 5 years. As long as the Superintendent/PM has major project experience and the supervisory/project management team has the required specialized experience we submit that is enough to ensure a successful project. Can the mandatory criteria be reduced to 3 or 4 out of 5 experience within the last 7 years?

Canada's Response:

The qualification criteria were developed to require that bidders demonstrate appropriate experience for the Superintendent within a recent timeframe. The timeframe for the required experience will not be changed.

6. Re: Appendix 6 – Qualification Form, 4.0 Site Supervisor's Experience. Items 9 and 10. We request that the time period for supervisor qualification for these items be expanded to 7 years so that we can include some major projects that we completed in 2008 and 2009.

Canada's Response:

The qualification criteria were developed to require that bidders demonstrate appropriate experience for the Site Supervisor(s) within a recent timeframe. The timeframe for the required experience will not be changed.

7. 01 11 55 1.3.20 defines a disposal facility as "An existing facility located in Canada". What is PWGSC criteria for determining when disposal out of Canada is acceptable? It should be noted that on Solicitation EZ113-15159/A (COL 12), materials with the same classification (IL+ waste material according to the British Columbia Contaminated Sites Regulation) were permitted for disposal outside of Canada. Why will disposal out of Canada not be accepted for this project, when it is acceptable for other PWGSC projects?

Canada's Response:

Disposal of materials generated as part of the Phase 2 South Jetty Under-pier Sediment Remediation Project must be within Canada as specified.

8. 35 20 23.01 1.10.4 states if the proposed Disposal Facility or Hazardous Waste Management Facility is not acceptable to the Departmental Representative, the Contractor must identify an alternative off-site Disposal Facility or Hazardous Waste Management Facility that is acceptable to the Departmental Representative, and must use the accepted alternate Disposal Facility or Hazardous Waste Management Facility at no additional cost to PWGSC. As part of the bid submission, the Bidder must provide the names of the proposed facilities, along with the permits and letters of acceptance from the disposal facility. What is the criteria that the departmental representative will be using to determine if a facility is acceptable? Are there additional criteria other than what the bidder is being required to submit? If the bidder completes all of the submission requirements and the tender is accepted, under what conditions would the Departmental Representative not accept the proposed disposal facility? Does the Departmental Representative have a list of facilities that are not acceptable?

Canada's Response:

All criteria required for acceptance of the Disposal Facility and Hazardous Waste Management Facility is presented in Section 5 of the Qualification Form and within the Specifications, and no additional criteria will be required for acceptance of the proposed facilities. Canada does not have a list of facilities that are considered unacceptable.

9. Re: Appendix 6 – Qualification Form, 2.0 Bidder’s Team Experience – Item 5 Engineered silt curtains. The requirement states, “Project conducted within the last 5 years (between January 1st 2010 and January 1st 2015) requiring an engineered design for fixed or anchored silt curtains in a marine tidal environment to control suspended sediments.” Please clarify whether the required Bidder’s Team Experience is having utilized a contractually required engineer designed silt curtain on a project within the last 5 years, or having engineered the design of a silt curtain for a project that has been executed within the last 5 years. Would either type of experience be acceptable?

Canada’s Response:

The required Bidder’s Team Experience, described in Item 5 of Section 2 of the Qualification Form, is for the Bidder (or subcontractor) to have “directly prepared the engineered design” of a silt curtain for a project that has been executed within the 5 year period specified.

10. Please clarify what is meant by an “engineered design” for the silt curtains. Curtain manufacturers typically follow DOT or similar design standards for curtain construction. What design parameters and scope constitute an “engineered design”?

Canada’s Response:

For the sole purpose of Bidders’ responses to Item 5 in the Qualification Form (Appendix 6 to the Instructions to Bidders, Section 2.0 Bidder’s Team Experience), “engineered design” of a silt curtain system is to include design, layout, and anchoring system, in advance of construction of fixed or anchored silt curtains in a marine tidal environment to control suspended sediments. The engineered design of the silt curtain system for the submitted project may have been completed by the contractor, subcontractor, or third party engineer for the project submitted in the Qualification Form.

11. If a dynamic design is required for the silt curtain, is there metocean data available for the site?

Canada’s Response:

Metocean data may be available through public resources; Bidders shall identify and determine the appropriate design parameters for the silt curtain system as it applies for use at the EGD Work Site. No specific design data will be provided by Canada.

12. Please provide copies of the following tender drawings in AutoCAD format to aid our estimating and work planning: C3, C4, C5, C6, C7, C8, C21, C22, C23, C28, C29, C30.

13. Can we request the auto-cad versions of the drawings. We request this for additional take-offs.

Canada’s Response:

Canada will not provide AutoCAD Drawings as part of the tender process for the Phase 2 South Jetty Under-pier Sediment Remediation Project. A conformed set of Drawings (AutoCAD and PDF) will be provided to the successful Bidder following Award of the Contract. Canada will provide a full-size set of Drawings in PDF format as part of Amendment 002 to assist Contractors with estimating and work planning.

14. Would PWGSC consider disposal of the creosote wood waste to Washington State?

Canada’s Response:

Disposal of materials (including creosote wood waste) generated as part of the Phase 2 South Jetty Under-pier Sediment Remediation Project must be within Canada. This requirement is stated in Clause 3.7.3 of Specification Section 02 41 16.01 (Structure Demolition), and also within

the definition of Disposal Facility in Clause 1.3.20 of Specification Section 01 11 55 (General Instructions).

ATTACHMENT LIST AMENDMENT 002:

- a) Revised APPENDIX 1 – COMBINED PRICE FORM (Unit Price Table)
REMOVE APPENDIX 1 – COMBINED PRICE FORM for the solicitation document and **REPLACE**
with the Revised APPENDIX 1 – COMBINED PRICE FORM (Unit Price Table) attached.
- b) ADDENDUM 002
- c) Rev. 0 Drawings PDF file, full-size A1

All other terms and conditions remain unchanged.

APPENDIX 1 - COMBINED PRICE FORM

- 1) The prices per unit shall 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.

CASH ALLOWANCE

The cash allowance amount for 1c in the below unit price table applies.

- (a) Section 01 11 55 Building Permit Cost Allowance

UNIT 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.

The following are the Unit Prices for work, including all labour, material, tools, equipment, overhead, and profit, required to complete the work as described in the attached Specification and Drawings. These Unit Prices may be used to adjust the Contract price as the scope of work increases or decreases as required by Departmental Representative.

Item No.	Spec. Section	Description of Work	Unit of Measurement	Estimated Quantity (EQ)	Price per Unit (Applicable Taxes extra)	Extended amount (EQ x PU) Applicable Taxes extra)
1a	01 11 55	Directed Move	Ea	2		
1b	01 11 55	Stand-by Time	Day	8		
1c	01 11 55	Building Permit Cost Allowance	L.S.	1	66,000	66,000
2a	01 33 00	Pre-Construction Submittals	L.S.	1		
2b	01 33 00	Post-Construction Submittals	L.S.	1		
3a	01 35 13.43	Temporary Re-suspension Barriers: Design and Procurement	L.S.	1		
3b	01 35 13.43	Temporary Re-suspension Barriers: Installation, Maintenance and Removal	L.S.	1		
4a	01 50 00	Mobilization	L.S.	1		
4b	01 50 00	Demobilization	L.S.	1		
5	01 91 13	Commissioning	L.S.	1		
6	02 21 13	Surveys	Day	181		
7a	02 41 13	Selective Site Demolition: General	L.S.	1		
7b	02 41 13	Selective Site Demolition: ICCP System	L.S.	1		
7c	02 41 13	Selective Site Demolition: South Jetty Fender Logs	L.S.	1		

Esquimalt Graving Dock Waterlot Phase 2
South Jetty Under-Pier Sediment Remediation
Project No. R.018400.002

UNIT PRICE TABLE (REVISED)

8a	02 41 13.14	Asphalt Paving Removal: West Timber Jetty	tonne	698		
8b	02 41 13.14	Asphalt Paving Removal: South Timber Jetty	tonne	567		
8c	02 41 13.14	Asphalt Paving Removal: Miscellaneous for Buried Utilities	tonne	40		
9a	02 41 16.01	Pre-Construction Condition Inspections of Adjacent Structures	L.S.	1		
9b	02 41 16.01	Structure Demolition: South Jetty Fender Piles	L.S.	1		
9c	02 41 16.01	Structure Demolition: South Jetty Corner Dolphin Piles	L.S.	1		
9d	02 41 16.01	Structure Demolition: Timber Pile Support Beams and Chocks (at Sheet Pile Perimeter Wall)	L.S.	1		
9e	02 41 16.01	Structure Demolition: Steel Waler Beams (at Sheet Pile Perimeter Wall)	L.S.	1		
9f	02 41 16.01	Structure Demolition: West Timber Jetty (at assumed average density of 840 kg/m ³)	tonne	3,180		
9g	02 41 16.01	Structure Demolition: South Timber Jetty (at assumed average density of 840 kg/m ³)	tonne	2,460		
9h	02 41 16.01	Structure Demolition: Timber Cutoff Piles and Collapsed Sheet Pile Wall	L.S.	1		
9i	02 41 16.01	Structure Demolition: Timber Piles at High Mast Light Foundation	L.S.	1		
9j	02 41 16.01	Structure Demolition: West Jetty Concrete Crane Pad	cu. m	350		
9k	02 41 16.01	Structure Demolition: South Jetty Concrete Crane Pad	cu. m	110		
9l	02 41 16.01	Structure Demolition: South Jetty Deck Slab (at High Mast Light)	cu. m	18		
9m	02 41 16.01	Structure Demolition: High Mast Light Foundation	cu. m	25		
10a	02 41 16.02	Structure Relocation: Disconnect and Store Tug Boat Wharf	L.S.	1		
10b	02 41 16.02	Structure Relocation: Reinstall Tug Boat Wharf	L.S.	1		
11	03 39 00	In-Situ Concrete: Jetty Deck Slab	cu. m	23		
12a	05 50 00	Metal Fabrications: Temporary Support Walers at Timber Crib (re-used material)	L.S.	1		
12b	05 50 00	Metal Fabrications: Wharf Safety Ladders (re-used material)	L.S.	1		

12c	05 50 00	Metal Fabrications: Access Ladders and Support Framing at Navigation Dolphins	L.S.	1		
12d	05 50 00	Metal Fabrications: Miscellaneous	L.S.	1		
13a	06 10 10	Timber Chocks (re-used material)	L.S.	1		
13b	06 10 10	Timber Bull Rail (re-used material)	L.S.	1		
14	22 15 00	Modifications to Compressed Air System	L.S.	1		
15	22 33 18	Modifications to Drainage Waste Piping	L.S.	1		
16	26 05 21	Modifications to LV Electrical System	L.S.	1		
17	26 05 27	Grounding	L.S.	1		
18	31 32 19.01	Geotextile: Sheet Pile Wall Overlap Joints	L.S.	1		
19a	31 61 13	Removal of Pipe Piling Obstructions	Hr	24		
19b	31 61 13	Disposal of Pipe Piling Obstructions	tonne	5.0		
20a	31 62 17	Removal of Sheet Piling Obstructions	Hr	24		
20b	31 62 17	Disposal of Sheet Piling Obstructions	tonne	5.0		
20c	31 62 17	Steel Sheet Piling: Re-Drive Wall Type A (AZ26-700)	L.S.	1		
20d	31 62 17	Steel Sheet Piling: Re-Drive Wall Type B (AZ38-700N)	L.S.	1		
20e	31 62 17	Steel Sheet Piling: Re-Drive Wall Type C (AZ50)	L.S.	1		
20f	31 62 17	Steel Sheet Piling: Re-Drive Wall Type D (AZ50)	L.S.	1		
20g	31 62 17	Steel Sheet Piling: Re-Drive Wall Type E (AZ38-700N)	L.S.	1		
20h	31 62 17	Steel Sheet Piling: Cut Off and Dispose Wall Type D at Timber Crib (AZ50)	L.S.	1		
20i	31 62 17	Steel Sheet Piling: Extract and Dispose Wall Type A (AZ26-700)	L.S.	1		
20j	31 62 17	Steel Sheet Piling: Extract and Dispose Wall Type B (AZ38-700N)	L.S.	1		
20k	31 62 17	Steel Sheet Piling: Extract and Dispose Wall Type C (AZ50)	L.S.	1		
20l	31 62 17	Steel Sheet Piling: Extract and Dispose Wall Type D (AZ50)	L.S.	1		
20m	31 62 17	Steel Sheet Piling: Extract and Dispose Wall Type E (AZ38-700N)	L.S.	1		
21a	31 62 19	Timber Piling: Re-install South Jetty Fender Piles (at concrete jetty perimeter)	L.S.	1		
21b	31 62 19	Timber Piling: Re-install South Jetty Corner Dolphin Piles (as navigation	L.S.	1		

UNIT PRICE TABLE (REVISED)

		markers)				
21c	31 62 19	Timber Piling: Navigation Lights	L.S.	1		
22	32 11 19	Granular Sub-Base	cu. m	21		
23	32 11 23	Granular Base	cu. m	36		
24a	32 12 16	Asphalt Paving	sq. m	172		
24b	32 12 16	Concrete Roadside Barriers	L.S.	1		
25	33 11 16	Modifications to Fire Water Mains	L.S.	1		
26a	35 20 23	Required Dredging	cu.m	37,900		
26b	35 20 23	Contingency Re-dredging	cu.m	2,100		
26c	35 20 23	Required Dredging In-Water Transportation	cu.m	37,900		
26d	35 20 23	Contingency Re-dredging In-Water Transportation	cu.m	2,100		
27a	35 20 23.01	Offloading	cu.m	40,000		
27b	35 20 23.01	Upland Transportation	cu.m	39,800		
27c	35 20 23.01	Hazardous Waste Upland Transportation	cu.m	200		
27d	35 20 23.01	Non-Hazardous Waste Disposal	cu.m	39,800		
27e	35 20 23.01	Hazardous Waste Disposal	cu.m	200		
28a	35 37 10	Sand Material Type 1	cu.m	8,300		
28b	35 37 10	Sand Material Type 2	cu.m	14,900		
28c	35 37 10	Sand Material Type 3	cu.m	600		
28d	35 37 10	Filter Material	cu.m	6,500		
28e	35 37 10	Armour Material (0.3 m Rock)	cu.m	7,000		
28f	35 37 10	Armour Material (0.15 m Rock)	cu.m	2,000		
28g	35 37 10	Impermeable Geosynthetic Material	sq. m	400		
Total BID AMOUNT						
Excluding Applicable Tax(es)						

Note: Tender Items 26a through 28f, as shown on the Unit Price Table, provide pay volumes for all planned dredging and in-water transportation, offloading, upland transportation, and disposal of dredged sediment and debris, and placement of Engineered Capping materials activities, and include payable over-dredge and over-placement allowances, as described in the Specifications and as shown on the Drawings.

END OF SECTION

ADDENDUM 002

This Addendum 002 is issued to provide notice of the following changes to the Specifications and Drawings:

- 1) Within Section 00 01 10 (Specification Index) re-label the revision number for Drawings C1, C4, C5, C6, C7, C8, C10, C21, C28 and S128 from "Rev.0" to "Rev.1", and add new Drawing S131 (Rev.0).
- 2) Revisions to Drawings described in Item 1 above are provided on the attached Rev.1 Drawings in full size (A1) and half size (A3) formats.
- 3) A full size (A1) set of the Drawings issued for tender is attached.
- 4) Within Section 01 11 55 (General Instructions) replace clause 1.16.2 with: *"A Building Permit will be required for this project. The Contractor shall obtain and pay for the Building Permit prior to the start of construction. The tender cost basis for the Building Permit is included as the Tender item identified as BUILDING PERMIT COST ALLOWANCE in the Unit Price Table. Notwithstanding this cost allowance, the Contractor will be compensated for the actual cost of the Building Permit (as evidenced by official receipt from Township of Esquimalt), and a contract adjustment will be made at that time to reflect the actual cost. In order to expedite the Building Permit process, PWGSC's consultant will file the construction plans with Township of Esquimalt prior to Contract award. The EGD Director will sign approval as to siting and use (for projects on federal lands) on the building permit application form."*
- 5) Within Section 01 33 00 (Submittal Procedures) at Table 1 labelled Pre-Construction Submittals, at the Pile Submittals line item on page 4, change the submittal description from *"Pile Submittals"* to *"Pile Submittals (including submittals for navigation lights and bird deterrent spikes)"*.
- 6) Within Section 01 35 13.43 (Special Procedures for Contaminated Sites) replace second sentence of Clause 1.26.2.3, with *"Provide written confirmation by the Contractor's third party engineer (stamped by a Professional Engineer) that the TRB system does not cause lateral live loading on the re-driven sheet pile perimeter wall."*
- 7) Within Section 01 51 00 (Temporary Facilities) replace clause 1.7.5.2 with: *"All export of dredged sediment, site demolition debris, structural debris and other debris shall be performed by barge."*
- 8) Within Section 01 51 00 (Temporary Facilities) replace clause 1.7.5.3 with: *"All import of fill materials, including Engineered Capping materials, shall be performed by barge. Ready-mix concrete, grout, hot-mix asphalt and miscellaneous items such as metal fabrications and utility hardware are not required to be imported by barge."*

- 9) Within Section 01 51 00 (Temporary Facilities) replace clause 1.12.1 with: *"Water supply is available at the EGD Facility and may be used for construction purposes at no cost to the Contractor. The EGD Facility water supply is not potable."*
- 10) Within Section 02 41 16.01 (Structure Demolition) re-number clause 1.3.11 as 1.3.12, and re-number subsequent clauses accordingly. Insert new clause 1.3.11 as follows: *"Demolition, controlled extraction, cleaning, and off-site disposal of existing timber support piles at the high mast light foundation (located underneath the steel-piled concrete deck structure), as shown on the Drawings and as found in the field, will not be measured individually. Demolition, controlled extraction, cleaning, and off-site disposal of these timber piles will be paid for at the Lump Sum price tendered for STRUCTURE DEMOLITION: TIMBER PILES AT HIGH MAST LIGHT FOUNDATION. Payment shall be full compensation for demolition, controlled extraction, cleaning, transportation, and disposal off-site of these items to an accepted disposal facility, including any environmental fees / levies and all work incidental thereto."*
- 11) Within Section 02 41 16.01 (Structure Demolition) replace clause 1.3.13 (now re-numbered as clause 1.3.14 per this Addendum) with: *"Demolition of existing unreinforced and reinforced concrete structures, as described in this Section, and regardless of the method of demolition, will be paid for at the unit prices tendered for STRUCTURE DEMOLITION: WEST JETTY CONCRETE CRANE PAD, STRUCTURE DEMOLITION: SOUTH JETTY CONCRETE CRANE PAD, STRUCTURE DEMOLITION: SOUTH JETTY DECK SLAB (at High Mast Light) and STRUCTURE DEMOLITION: HIGH MAST LIGHT FOUNDATION, respectively. Payment shall include all costs in connection with demolition, controlled breakup, sorting, transport, and disposal of the concrete structures, as specified and as shown on the Drawings."*
- 12) Within Section 05 50 00 (Metal Fabrications) insert new clause 1.2.9 as follows: *"Section 31 62 19 (Timber Piling)".*
- 13) Within Section 05 50 00 (Metal Fabrications) re-number clause 1.3.3 as 1.3.4, re-number clause 1.3.4 as 1.3.5, and insert new clause 1.3.3 as follows: *"Access ladders and support framing at the navigation marker dolphins will not be measured individually. These access ladders and their support framing will be paid for at the Lump Sum price tendered for METAL FABRICATIONS: ACCESS LADDERS AND SUPPORT FRAMING AT NAVIGATION DOLPHINS. Payment shall be full compensation for supply and installation of these steel access ladders and their support framing."*
- 14) Within Section 31 62 19 (Timber Piling) replace clause 1.1.1 with: *"This Section covers the re-installation of existing timber fender piles (to protect concrete structures) and corner dolphin piles (as navigation markers) as shown on the Drawings, including the supply and installation of navigation lights and bird deterrent spikes. Re-use of selected salvaged timber piles as indicated on the Drawings is a Project requirement. It is not anticipated that any new timber piles or timber components will be required for the work."*
- 15) Within Section 31 62 19 (Timber Piling) insert new clause 1.1.4 as follows: *"For steel access ladders and their support framing at navigation marker dolphins, refer to Section 05 50 00 (Metal Fabrications)."*

- 16) Within Section 31 62 19 (Timber Piling) re-number clause 1.2.8 as 1.2.9, and re-number subsequent clauses accordingly. Insert new clause 1.2.8 as follows: *"Section 05 50 00 (Metal Fabrications)"*.
- 17) Within Section 31 62 19 (Timber Piling) add the following to the last sentence of clause 1.3.1: *", except for work in connection with steel access ladders and their support framing (at navigation marker dolphins), and except for work in connection with navigation lights (at corner dolphins and at navigation marker dolphins)."*
- 18) Within Section 31 62 19 (Timber Piling) re-number clauses 1.3.2 as 1.3.3, 1.3.3 as 1.3.5, 1.3.4 as 1.3.7 and 1.3.5 as 1.3.8 to suit the insertion of the following new clauses.
 - a) Insert new clause 1.3.2 as follows: *"Navigation lights (at corner dolphins and at navigation marker dolphins) will not be measured individually. Payment for navigation lights will be made at the Lump Sum price tendered for TIMBER PILING: NAVIGATION LIGHTS. Payment shall be full compensation for all work in connection with supply and installation of navigation lights as described in this Section and on the Drawings, and for supply of two (2) spare navigation lights."*
 - b) Insert new clause 1.3.4 as follows: *"Steel access ladders and their support framing at navigation marker dolphins will be measured to Section 05 50 00 (Metal Fabrications), and payment shall include all costs in connection with these steel access ladders and their support framing as specified in that Section."*
 - c) Insert new clause 1.3.6 as follows: *"Bird deterrent spikes are considered as incidental to the re-installation of timber piles at all dolphins that include navigation lights."*
- 19) Within Section 31 62 19 (Timber Piling) insert new clause 1.4.1.4 as follows: *"CAN/CSA 22.1, Canadian Electrical Code, Part 1 (Current Edition), Safety Standard for Electrical Installations."*
- 20) Within Section 31 62 19 (Timber Piling) insert new clause 1.4.4 as follows: *"Canadian Coast Guard: The Canadian Aids to Navigation System (TP968)."*
- 21) Within Section 31 62 19 (Timber Piling) insert new clause 1.6.3 as follows: *"Submit to Departmental Representative a minimum of twenty-eight (28) days prior to delivery the manufacturer's product details and operational characteristics for the proposed navigation lights and product details for the bird deterrent spikes." This submittal and Specification Section will also be referenced in Section 01 33 00 (Submittal Procedures), Table 1.*
- 22) Within Section 31 62 19 (Timber Piling) insert new clause 2.4 labelled *"Navigation Piles"*. Insert new clause 2.4.1 as follows: *"Each navigation light shall be a solar-powered marine lantern with yellow flashing light of flashing character F14s (F10.5s Ec3.5s), and with a minimum visual range of 3.0 nautical miles with yellow light installed (intentionally set higher than Canadian Coast Guard's minimum requirement of 2.0 nautical miles to ensure performance). The F14s (F10.5s Ec3.5s) flashing character coding signifies that the total duration of light in a period is shorter than the total duration of darkness and is regularly repeated at a rate of 15 flashes per minute (1 flash every 4 seconds, 0.5 sec. flash; 3.5 sec. eclipse). The lights shall comply with the Canadian*

Aids to Navigation System (TP968), published by Canadian Coast Guard. The lights shall have vertically mounted solar panels (to minimize dust/dirt accumulation). The lights shall either have internal circuit protection to ensure they meet CAN/CSA 22.1 section 16-200 for Class 2 electrical circuit requirements (i.e. no CSA approval required), or if not they shall be CSA approved. A minimum battery charge life of fourteen (14) hours in total darkness is required, and a minimum battery replacement life of five (5) years overall is required. Acceptable Products are:

- .1 Carmanah model M850 60X Standard solar LED marine lantern, as supplied by Carmanah Technologies Corp. of 250 Bay Street, Victoria, BC, V9A 3K5; Tel 1(877) 722-8877.*
- .2 Sealite model SL-C310 solar LED marine lantern, as supplied by Sealite USA, LLC, 61 Business Park Drive, Tilton, New Hampshire 03276, USA; Tel 1(603) 737-1311.*

Note: The Acceptable Products listed above fulfill the technical requirements for flashing configuration, range, and battery life. However, these Acceptable Products may still require CSA approval if they do not meet CAN/CSA 22.1 section 16-200 for class 2 circuits. The product specified as minimum standard does not exclude any other products. The specifications for the specified product will be used as the base for minimum acceptable standards during the shop drawing review. All products must meet or exceed the minimum standards."

- 23) Within Section 31 62 19 (Timber Piling) insert new clause 2.4.2 as follows: *"Supply two (2) spare navigation lights (with battery packs) to Departmental Representative for storage and future use as replacement in the event of damage to lights in service."*
- 24) Within Section 31 62 19 (Timber Piling) insert new clause 2.5 labelled *"Bird Deterrent Spikes"*. Insert new clause 2.5.1 as follows: *"Bird deterrent spikes (to be used at each navigation light) shall be of durable, UV resistant non-corrodible material."*
- 25) Within Section 31 62 19 (Timber Piling) insert new clause 3.8 labelled *"Operation and Maintenance Manuals for Navigation Lights"*. Insert new clause 3.8.1 as follows: *"Provide operation and maintenance manuals, as stipulated in Section 01 78 30 (Closeout Submittals), for navigation lights installed in the work, including any necessary instructions for programming the lights and for battery replacement."*
- 26) Within Section 32 12 16 (Asphalt Paving) insert new clause 1.1.2 as follows: *"This Section also covers the supply and installation of concrete roadside barriers as shown on the Drawings."*
- 27) Within Section 32 12 16 (Asphalt Paving) re-number clause 1.3.3 as 1.3.4, and insert new clause 1.3.3 as follows: *"Concrete roadside barriers will not be measured individually. Concrete roadside barriers will be paid for at the Lump Sum price tendered for CONCRETE ROADSIDE BARRIERS. Payment shall be full compensation for supply and installation of the concrete roadside barriers as shown on the Drawings."*
- 28) Within Section 32 12 16 (Asphalt Paving) replace clause 1.4.19 with: *"BC MoTI Standard Specification for Highway Construction: Section 951, Asphalt and Paving Materials for Highway Use; Section 941, Precast Reinforced Concrete Barriers; and Section 952, Asphalt Supply."*

- 29) Within Section 32 12 16 (Asphalt Paving) re-number clause 1.4.20 as 1.4.21, re-number clause 1.4.21 as 1.4.22, and insert new clause 1.4.20 as follows: *"BC MoTI Recognized Product List."*
- 30) Within Section 32 12 16 (Asphalt Paving) insert new clause 2.5 titled *"Concrete Roadside Barriers"* with clause 2.5.1 as follows: *"The precast reinforced concrete roadside barriers shall be BC MoTI approved (BC MoTI Specification Section 941, interlocked units), new material only. Drainage slots are required for all barriers. Provide BC MoTI approved transitions and end sections as required for a complete and smooth roadside barrier system. Refer to the Drawings for location of concrete roadside barriers."*
- 31) Within the Invitation to Tender replace the Unit Price Table (in Appendix 1) with the attached revised Unit Price Table, in which certain payment items are re-numbered, and which includes additional payment items for:
- Tender Item 1c – Building Permit Cost Allowance (with tender cost basis of \$66,000);
 - Tender Item 9i – Structure Demolition: Timber Piles at High Mast Light Foundation;
 - Tender Item 9l – Structure Demolition: South Jetty Deck Slab (at High Mast Light);
 - Tender Item 9m – Structure Demolition: High Mast Light Foundation;
 - Tender Item 12c – Metal Fabrications: Access Ladders and Support Framing at Navigation Dolphins;
 - Tender Item 21c – Timber Piling: Navigation Lights; and,
 - Tender Item 24b – Concrete Roadside Barriers.

All references in the Specifications to the Unit Price Table (or contents thereof) shall now be considered to refer to the attached revised Unit Price Table.

- 32) The attached Tariff Sheet describes services that can be provided to the Bidder for the described fee during completion of the South Jetty Under-pier Sediment Remediation Project. Please note the following items will not qualify for tariff if required during completion of the project:
- Item 6 – Air Compressor (first), per manifold hour
 - Item 7 - Air Compressor (second), per manifold hour
 - Item 8 - Air Compressor (wheeled), per manifold hour
 - Item 10 – Fresh water, per cubic metre
 - Item 11 – Electric power, per kilowatt hour

Additionally, the following items will not qualify for tariff if the services are conducted within the EGD Work Site:

- Item 1 – Booking
- Item 3 – Berthage, per metre, per day
- Item 12 – Tie-up or letting go
- Item 14 – Security services, per vessel, per day

ATTACHMENT LIST – ADDENDUM 002:

- a) EGD Tariff Sheet
- b) Rev.1 Drawings PDF file, half-size A3
- c) Rev.1 Drawings PDF file, full-size A1

END OF ADDENDUM 002

All other terms and conditions remain unchanged.