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800 Burrard Street, Room 219
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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 Marine Facility WaterSystem Upgrade	
Solicitation No. - N° de l'invitation F1700-204309/A	Amendment No. - N° modif. 004
Client Reference No. - N° de référence du client F1700-204309	Date 2020-09-24
GETS Reference No. - N° de référence de SEAG PW-\$PWY-028-8811	
File No. - N° de dossier PWY-0-43048 (028)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 12:00 PM on - le 2020-10-13	Time Zone Fuseau horaire Pacific Daylight Saving Time PDT
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: Lam (PWY), Tian	Buyer Id - Id de l'acheteur pwy028
Telephone No. - N° de téléphone (604) 363-7968 ()	FAX No. - N° de FAX (604) 775-6633
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DFO - Institute of Ocean Science – Sidney, 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

The Solicitation Amendment 004 is raised for the following purposes:

- 1) To announce the scheduling of an optional virtual site visit
- 2) To issue Addendum 001
- 3) To publish additional specification information and drawings
- 4) To extend the bid closing date and time.
- 5) To make revisions to the Bid & Acceptance Form and the Appendix 1 - Combined Price Form and issue new forms for submission. See below

Amendment 004

- 1) An optional virtual site visit has been scheduled for October 1, 2020 at 10:00am PDT. We encourage bidders to attend this online meeting.

You may attend either by audio connection (smartphone) or by computer (audio and/or video), though we recommend you take advantage of the video as we will be presenting visuals.

The details for logging into this meeting will be made available to bidders who express an interest in attending by contacting the Contracting Authority before 12:00 pm PDT on September 30, 2020.

If you wish to attend, please email Tian Lam at tian.lam@pwgsc-tpsgc.gc.ca.

- 2) Please see Addendum 001 herein.
- 3) Please view additional documents under the section "Attachments" that were referenced in Addendum 001
- 4) The solicitation's bid closing date and time has been changed as follows:

Extension of Time for Tenderers

Marine Facility Water System Upgrade
Institute of Ocean Sciences, Sidney, BC
Solicitation No: F1700-204309/A

Notice is hereby given that the time for reception of tenders previously due at 2:00 p.m. P.D.T. On September 29, 2020 is hereby extended to **2:00 p.m. P.D.T. on October 13, 2020.**

- 5) The Bid and Acceptance Form (BA) and the Appendix 1 – Combined Price Form have been revised. Please see below for the revised forms to be completed and submitted in the bid package. Bidders who fail to submit the revised **Bid and Acceptance Form (BA) – REVISION 1 and the Appendix 1 – Combined Price Form - REVISION 1** will be disqualified and no further consideration will be given.

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BID AND ACCEPTANCE FORM (BA) – REVISION 1

BA01 IDENTIFICATION

Marine Facility Water System Upgrade
Institute of Ocean Sciences, Sidney, BC

BA02 LEGAL NAME AND ADDRESS OF BIDDER

Legal Name: _____

Operating Name (if any): _____

Address: _____

Telephone: _____ Fax: _____ PBN: _____

E-mail address: _____

Industrial Security Program Organisation Number (ISP ORG#) _____
(when required)

BA03 THE OFFER

The Bidder offers to Canada to perform and complete the Work for the above named project in accordance with the Bid Documents for the TOTAL BID AMOUNT INDICATED IN APPENDIX 1.

BA04 BID VALIDITY PERIOD

The bid must not be withdrawn for a period of 30 days following the date of solicitation closing.

BA05 ACCEPTANCE AND CONTRACT

Upon acceptance of the Bidder's offer by Canada, a binding Contract will be formed between Canada and the Bidder. The documents forming the Contract will be the Contract Documents identified in "Contract Documents (CD)" section.

BA06 CONSTRUCTION TIME

The Contractor must perform and complete the Work by June 30, 2021.

BA07 BID SECURITY

The Bidder must enclose bid security with its bid in accordance with GI08 - Bid Security Requirements of R2710T - General Instructions - Construction Services - Bid Security Requirements.

BA08 SIGNATURE

Name and title of person authorized to sign on behalf of Bidder (Type or print)

Signature

Date

APPENDIX 1 - COMBINED PRICE FORM – REVISION 1

- 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.

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.

Article No.	Class of Labour, Plant or Material	Unit of Measurement	Estimated Quantity (EQ)	Price per Unit applicable tax(es) extra (PU)	Extended amount (EQ x PU) applicable tax(es) extra
BASE WORK					
1	Mobilization & Demobilization	L.S	1		
2	Demolition works	L.S.	1		
3	Quality Management	L.S.	1		
	Supply & Install Water Provision to Fix Wharf				
4	PVC Restrained 250mm Pipe on Fixed Wharf	Metre	400		
5	PVC Restrained 200mm Pipe on Fixed Wharf	Metre	400		
6	Recessed Hydrants	EA.	4		
7	150mm Gate Valves	EA.	8		
8	200mm Gate Valve	EA.	2		
9	250mm Gate Valve	EA.	2		
10	150 mm Reduced Pressure Backflow Prevention Assembly c/w Two Gate Valves and Wye Strainer	EA.	5		
11	75 mm Reduced Pressure Backflow Prevention Assembly c/w Two Gate Valves and Wye Strainer	EA.	2		
12	250mm Butterfly Valves	EA.	1		
13	200mm Butterfly Valves	EA.	1		
	Supply and Install Service Lines in Causeway Area				
14	PVC 250 mm Pipe in common Trench	Metre	200		
15	PVC 200 mm Pipe in common Trench	Metre	200		

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Article No.	Class of Labour, Plant or Material	Unit of Measurement	Estimated Quantity (EQ)	Price per Unit applicable tax(es) extra (PU)	Extended amount (EQ x PU) applicable tax(es) extra
16	PVC 100mm Pipe	Metre	50		
17	Road Works	L.S.	1		
18	Recessed Hydrant	EA.	1		
	Supply and Install Works in Valve Chamber				
19	New Pressure Reducing Valve	EA.	1		
20	200mm Reduced Pressure Backflow Prevention Valve c/w wye strainer and gate valves	EA.	1		
21	250 mm Schedule 40 steel piping & Fittings	Metre	15		
22	200 mm Schedule 40 steel piping & fittings	Metre	15		
23	100 mm Schedule 40 steel piping	Metre	10		
24	Sump Pump System c/w valves, fittings, coupling	L.S.	1		
	Miscellaneous				
25	Miscellaneous Civil Works (Bollards, Restoration)	L.S.	1		
26	At six locations, core through existing 250mm walls in concrete gallery area on Fixed Wharf to allow 200mm and 150 mm existing penetrations expansion to 200 and 250 mm size piping plus insulation.	L.S.	1		
27	Core through existing 250mm walls in gallery area on Fixed Wharf to allow 150mm existing penetrations for fire line to 250 mm size piping	L.S.	1		
28	Core through existing 250mm walls in gallery area on Fixed Wharf to allow 150mm existing penetrations for fire line to 250 mm size piping	L.S.	1		
29	Core through existing 250mm walls in valve chamber to allow 200mm, 150mm & 38mm existing penetrations expansion to 250mm, 200mm and 100mm Fire, Domestic and Sump pipeline respectively	L.S.	1		
30	Misc. 3 m long x 250mm thick concrete cut in gallery at Kiosks 11 and 12 to facilitate Domestic and Fire Supply Line Tie-ins	L.S.	1		

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Article No.	Class of Labour, Plant or Material	Unit of Measurement	Estimated Quantity (EQ)	Price per Unit applicable tax(es) extra (PU)	Extended amount (EQ x PU) applicable tax(es) extra
OPTIONAL WORK					
31	Heat trace and insulation (Fixed Wharf and Valve Chamber Water System)	L.S.	1		
TOTAL BID AMOUNT Excluding applicable tax(es)					

All other terms and conditions remain unchanged.

The following changes in the tender documents are effective immediately. This addendum will form part of the contract documents

Optional Work:

Item No 25 “Heat Trace and Insulation (Fixed Wharf Fire and Domestic Water System)” in the unit price table is an optional work. The Department representative may choose to exercise the optional work by approximately one month after contract award.

Specifications

**Revise Clause 1.5.1 of Section 01 11 55 – General Instructions to read:
Work must be completed by June 30, 2021**

Add “Section 00 98 70 – Coating System”. See attached file titled “09870_Coating Systems for Steel Tanks & Pipes_03-21-06.pdf”

Add “Section 23 18 10 – Heat Tracing & Insulation”. See attached file titled “23 18 10 Heat Tracing & Insulation_Rev01.pdf”

Drawings

Add drawing “E-001 Sheet 1 - Site Plan Proposed Heat Trace Panel Location. See attached file titled “E-001 - E-004 20200916.pdf”

Add drawing “E-002 Sheet 1 – Main Pier Heat Trace Schematics Proposed Upgrades. See attached file titled “E-001 - E-004 20200916.pdf”

Add drawing “E-002 Sheet 2 – Main Pier Panel Layout Proposed Upgrades. See attached file titled “E-001 - E-004 20200916.pdf”

Add drawing “E-003 Sheet 1 – South Wing Heat Trace Schematics Proposed Upgrade. See attached file titled “E-001 - E-004 20200916.pdf”

Add drawing “E-003 Sheet 2 – South Wing Panel Layout Proposed Upgrades. See attached file titled “E-001 - E-004 20200916.pdf”

Add drawing “E-004 Sheet 1 – North & NS Heat Trace Schematics Proposed Upgrades. See attached file titled “E-001 - E-004 20200916.pdf”

Add drawing “E-004 Sheet 2 – North & NS Panel Layout Proposed Upgrades. See attached file titled “E-001 - E-004 20200916.pdf”

Add Drawing “C-SK-003 – Existing System Description Overall Plan“. See attached file titled “C-SK-003 -2020 09 11.pdf”

Reference Drawings

Refer to file titled “All Existing Drawings.pdf” for reference drawings

Site Photos

Refer to file titled “Photos.zip” for additional site photos

General Inquiries/Clarifications:

Question No 1: It appears the drawings were scanned in effecting the scale of the drawings. Can you please double check the scale and re issue the drawings?

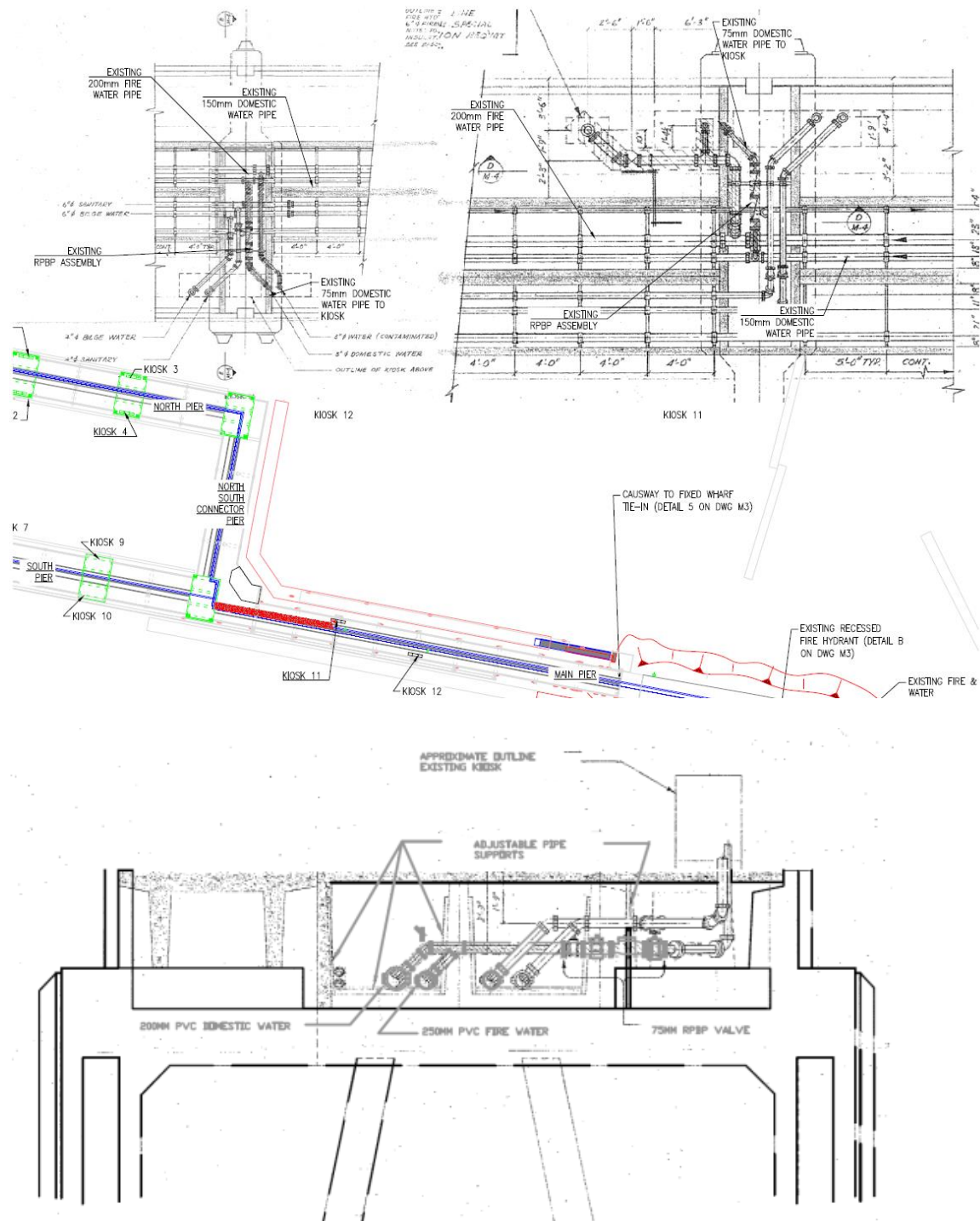
Answer: Contractor shall follow the lengths noted on the drawings and not to scale. All major critical dimensions for takeoffs are noted on the drawings. If there is specific dimension requirements, please request accordingly.

Question No 2: Item 10 on the tender form calls for RPBP valves. Can you please provide the sizes and locations of where these valves are to be installed?

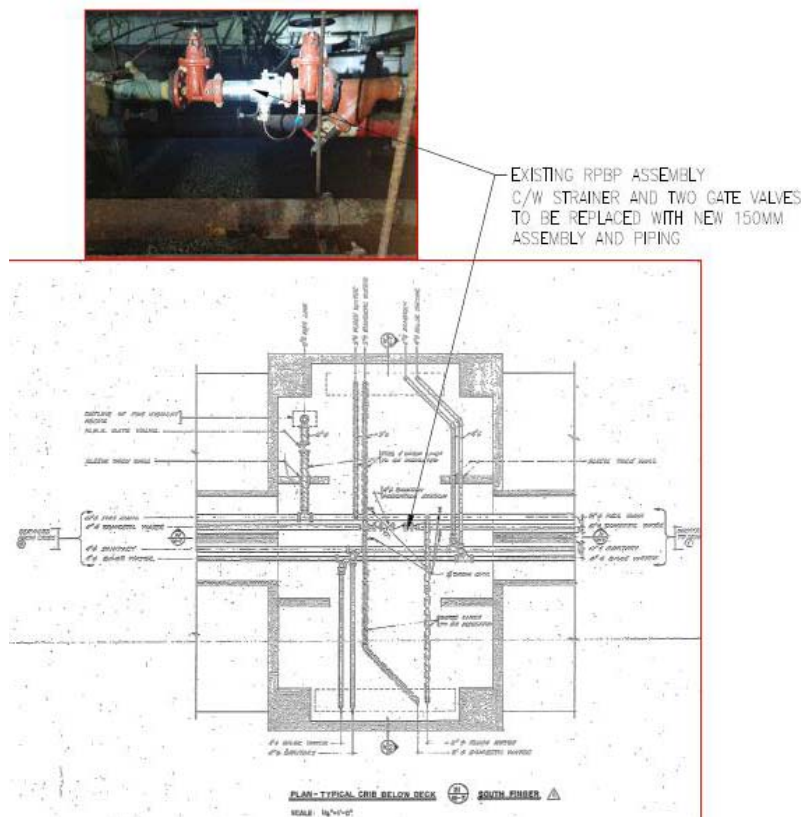
Answer: One 150mm RPBP valve assembly (model Watts Series 4000SS, NRS, all flanged connections) is to be provided at each crib servicing two kiosks. At each Crib, there will be 150 to 200mm reducing tee from 200 mm domestic pipe. Followed by 150mm flanged wye strainer (Cla-val Model X43H 150# Flanges or Discover Valve SS316 Flanged TC-YSF) Downstream of the RPBP, a 150x75x75mm tee will service 75mm feed to each Kiosk. There are five RPBP units required at the Crib. Refer to Typical Sketch 1 for piping arrangement at each Crib.

For Kiosks 11 and 12, two additional 75mm RPBP valve assemblies C/W wye strainer (Cla-val Model X43H 150# Flanges or Discover Valve SS316 Flanged TC-YSF) shall be provided. Each RPBP assembly will be model Watts Series 4000SS, NRS, all flanged connections).

The general routing of the piping and RPBP assembly shall be similar to the existing arrangement as Depicted in Sketch 1 and 2.



Sketch 2: KIOSK 11 & 12 EXISTING PIPING AND RPBP ARRANGEMENT



SKETCH 1: TYPICAL VIEW OF THE RBPB ASSEMBLY IN CRIB AREA THAT IS TO BE REPLACED WITH NEW 150MM ASSEMBLY

Question No 3: Item 24 on the tender form calls for heat tracing. Can you please provide electrical drawings for where power is to be fed from and a spec for the heat trace ?

Answer: Heat tracing design is attached. Allow for metal jacketed, fiberglass 50mm thickness insulation.

Question No 4: Looking at the photos it shows the pipe route to be installed under existing concrete. Can you please provide:

- What is the existing concrete thickness?
Existing concrete panels are
- Is there any rebar in the existing concrete?
- What is the new concrete thickness?
- Is there any rebar and dowelling required?
- A concrete spec?

Answer: Concrete panels are liftable. Pipe gallery is accessible via Manholes except gallery in north south connector pier. Concrete panels can be lifted to facilitate pipe installation. Concrete panel weight is provided (Refer to the attached Sketch C-SK-003). Refer to the existing As built Drawings for additional available gallery information for Questions 4a to 4e. Bidder shall note that in some cases some electrical upgrades have been completed over the years however, concrete structure are as shown on the attached as built drawings.

Question No 5: What is the assumed height of the recessed hydrants?

Answer: Recessed Hydrant shall be flush with the top of the deck elevation. Please refer to the Photograph below for existing recessed hydrant installation and as built drawings for past installation. New recessed hydrant shall be installed similar configuration to the existing.



Question No 6: Can you please clarify the locations of the 8 recessed hydrants under tender item 6? There is a description of 6 on drawing C-004 with an additional 2 shown and 1 on C-006 by the float A ramp and another on drawing C-003 near float B1 ramp. What tender line item are the remaining hydrants to be included in?

Answer: There are four recessed hydrant that need replacement at the fixed Wharf area. All recessed hydrant on fixed Wharf are shown on attached Drawing C-SK-003. In addition to four new recessed hydrant installation, two existing recently replaced recessed hydrant needs to be protected and reconnected with the new 200mm fire supply pipe. These two recessed hydrants' location is also shown on C-SK-003. In addition, one more hydrant is required near the float A approach as shown on Drawing C-003.

Question No 7: Is all of the piping accessible in the crib frames or is there piping outside above the water?

Answer: All pipe is accessible within the Crib Frame.

Question No 8: Section 32 31 13 item 1.7 refers to removing and installing some new fencing. Can you please point me to where this work is shown on the drawings?

Answer: Consider fencing removal and relocation out of the Contract scope. Piping in causeway needs to be run on the south side of the road therefore fence removal and relocation is not required as long as existing fence is protected during excavation.

Question No 9: What size of pipe and material are each of the float tie ins to be ?

Answer: The tie in Connection for Float D has been recently installed and is SS 50mm in size. Once new 200mm Domestic PVC piping is installed, relocate the tie-in of the existing 50mm pipe to the new 200mm Domestic PVC. Piping connection for Float A is 100 mm buried PVC as show on drawing C003 and is to be supplied and installed as part of the contract as shown on the drawing. Allow for required fittings for the new tie-ins.



PHOTO 1: EXISTING 50mm TIE-IN FOR FLOAT D TO BE RELOCATED TO NEW 200MM DOMESTIC WATER PIPE.

Question No 10: On drawing C-007 can you clarify what items are new vs existing in section A & B ?

Answer: All items that are not labelled as “existing” shall be included in the Contract. As noted above, fence removal and relocation is not required as pipe can be run on south side of the road. Any damages to road structure and adjacent areas needs to be restored to original or better condition.

Question No 11: Is there other manholes to access the cribs or are there only big access hatches? If so where are they located ?

Answer: There are manholes for access in to each crib and at Kiosks 11 and 12 area. For north south connecting pier and red hatched section of the main pier, allow for lifting of the concrete panels for pipe installation as required. **CONTRACTOR MUST SUBMIT SEALED ENGINEERED ASSESSMENT REGARDING THE CRANE WEIGHT BEFORE ACCESSING THE PIER.**

Question No 12: What is the size and weights of the concrete service trench hatches? Where is each one located? Are they able to be kept open for the duration of the work on site? Is there lifting clutches built into them ?

Answer: The size of the concrete galley is shown in the existing as built drawings (attached). No weight information of the trenches is available, however panel weight is listed on C-SK-003.

Question No 13: Drawing C-003 there is a note “install new 200 and 250 isolation valves and actuators” Can you please provide the actuator spec and wiring details ?

Answer: No electrical actuators required. Note refer to buried valve with valve spindle and square nut access as per detail on Drawing C010.

Question No 14: Drawing C-003 calls for new 50mm domestic water pipeline and pedestals (typical for all floats). Can you please provide drawings and where in the tender form this work should be added to ?

Answer: Note should read “Existing 50mm Domestic Water Pipeline and Pedestal. No work required at the floats.”

Question No 15: Drawing C-001 calls for the removal of existing sanitary lift station oil separator, bilge water tank system and related piping and associated fittings. Can you please provide details and photos of what is to be removed ?

Answer: Additional photos are included and also as built drawings show the existing installations of piping works. All piping (for all commodities in fixed wharf and valve chamber area) related valves and appurtenances system except salt water inlet feed pipe

system (not shown in as built drawings) needs to be removed and disposed. As built drawings show the piping systems for water, fire, sanitary, contaminated stream, bilge supply that needs to be removed at all fixed wharf area. All piping system and sump system needs to be removed in Valves Chamber (refer to pictures and as built drawings).

Question No 16: Section 01 11 55 item 1.2.2.3 calls for new kiosks being supplied under a different contract. Can you please clarify how many kiosks are being installed the location and who will be installing them? Also who is responsible for removing the old ones? What are the connection sizes requirements, valving requirements and pipe specification?

Answer: Installation of Kiosks is not included in the Contract and there are no new Kiosks to be installed by others. Refer to as built drawings for connection to the existing Kiosks. At each Kiosk, allow for connection to the existing pipe below the slab within 150mm distance from underneath the slab. Allow for fittings suitable for steel to PVC pipe connection. as required to connect domestic water pipe at each Kiosks.

Question No 17: Section 01 11 55 item 1.2.2.4 calls to install a new sewage pipe in the causeway area for future tie-in. Is this work being completed if so under what tender items and where is this work shown on the drawings?

Answer: Installation of new sewer piping work is excluded.

Question No 18: Are the hose racks required at each fire hydrant? Can you please provide a make and model number of and equivalent hose rack that meets the specifications ?

Answer: No hose racks are required.

Question No 19: During the duration of the work is the existing piping systems able to be out of service or is it expected that the contractor installs temporary feeds to keep the existing system operational until the new piping is installed and commissioned?

Answer: Coordinate with Department Representative for shut down of section at a time of the gallery area and Kiosk tie-ins. Allow for temporary over the deck bypass piping while working on a particular section of the gallery area. At all times ensure unhindered access to the vehicular traffic on the deck.

Question No 20: Please provide a spec for the PRV in the valve chamber shown on drawing C-007 ?

Answer: PRV shall be Cla-val Model 90-21, 250mm, 150# flanged, epoxy coated.

Question No 21: Please provide a spec for the sump pump and discharge piping and valves in the valve chamber shown on drawing C-007?

Answer: Pump shall be Hydromatic HP50 c/w float switch, epoxy coated and suitable length power cord c/w reducer from 38mm to 100mm. All piping shall be 100mm Epoxy Coated Steel or 100mm PVC Schedule 80 complete with union connections for easy disassembly. Isolation Valve shall be 100 mm flanged ball valve type, epoxy coated per specification document Section 23 31 15 and 100 mm check valve, epoxy coated shall be Flygt Flanged Ball Check Valve or equivalent. Allow for larger pipe (50mm to 100mm) diameter coring through the valve chamber wall an new couplings for transition to existing pipe outside the chamber at 500mm distance from the outside of the valve chamberwall.

Question No 22: Please provide a detail for the fire pump line & hydrant as noted to be installed in the valve chamber shown on drawing C-007 or is it being reused?

Answer: Line is being reused.

Question No 23: Can you please provide photos of the valve chamber?

Answer: See Sketch C-SK-003 and photographs.

Question No 24: Can galvanized grooved couplings be used inside the valve chamber ?

Answer: Victaulic or equivalent coupling are acceptable.

Question No 25: Can sch 10 304 stainless piping be used rather than epoxy coated steel piping ?

Answer: Standard weight 304 or thicker wall pipe is acceptable as an alternate.

Question No 26: If sch 10 304 stainless piping cannot be used, then can Sch 40 304 stainless piping be used rather than epoxy coated steel piping

Answer: See response above

Question No 27: If epoxy coated steel piping is required please provide a specification for the coatings

Answer: See attached specifications “Section 00 98 70 – Coating Systems”

Question No 28: Provide insulation specification for the pipe insulation and jacketing inside the valve chamber on drawing C-007 ?

Answer: Refer to Specification Section 23 18 10.

Question No 29: Can bolt down bollards be installed rather than coring the concrete to pour in the new bollards as per drawing C-009 detail 15 ?

Answer: Installation shall be as per the Contract Documents.

Question No 30: Can you please clarify the pipe specification for each item on the tender form and the location? There appears to be HDPE to be installed as per section 33 11 16 item 2.3.2 and drawing C-007 downstream of the chamber.

Answer: Refer to specification document 33 11 16 Part 2.

Question No 31: Are bends required in the roadway or are we to power bend the pipe ?

Answer: Refer to the manufacturer's recommendations for maximum allowable deflection.

Question No 32: Is it possible to change the spec for the piping on the wharf to sch 10 or 40 grooved stainless as it is hard to install hub and spigot piping in a confined space

Answer: Schedule 40 is acceptable but not schedule 10.

Question No 33: Can you please confirm the pipe support locations and what style should be used where? Is the existing pipe supports able to be reused or are new ones to be installed ?

Answer: Existing pipe supports are not usable. In gallery/trench area, u channel with clamps are typical. For crib areas combination of roof hangers and floor supports would be required. All material shall be suitable for expected environment per the specifications and drawings.

Question No 34: Can you please clarify the location and thickness of the concrete that requires coring?

Answer: Coring location for fixed wharf is identified on C-SK-003. Note that existing 200 and 150 mm pipe penetration needs to be increased to new pipe sizes complete with the insulation thickness. Similarly, at the valve chamber larger cores required to facilitate new piping penetrations.

Question No 35: Is it possible to have a mandatory site meeting for bidders to go over the work and look inside the cribs as the drawings are so vague so everyone is bidding on a level playing field?

Answer: No mandatory or optional site visits are allowed due to the COVID-19 Restrictions.

Question No 36: I wanted to follow up and inquire if there is a particular reason grooved valves are not approved? Have you had issues with grooved valves? Are you aware that Victaulic had a major re-design of our grooved valves and they are unlike any other grooved manufacturers valves? Are you aware that Victaulic can offer an extended warranty up to 50 years on select installed components including valves?

Answer: Victaulic valves are acceptable provided the installation meets the system requirements within the manufacturer's approved application guidelines.

Question 37: Can you provide a log of all questions posed by other contractors?

Answer: Questions posed by bidders and the answers will be published on the buyandsell.gc.ca website for this solicitation. It is the responsibility of the bidders to check the website for amendments and updates.

Question 38: Can you provide backfill details (with elevations) for the work under the road (Valve chamber to edge of wharf trench)

Answer: Refer to attached "as built" drawings to match the elevations for the pipe installation. As applicable, all works shall be as per the CRD's Standard Trench Detail unless specified otherwise.

Question 39: Can we assume the work under the road is only located under the narrow asphalt strip and not under the concrete roadway?

Answer: It is Department's intent that pipe be installed with minimal disruption. Use of applicable installation methodology which allow minimal excavation is encouraged. It is up to the Contractor to select appropriate installation methodology.

Question 40: Can you provide more information on the heat trace and insulation? i.e. Watts / meter for heat trace, type of heat tracing requested, Type and thickness of insulation and insulation covering (aluminum?)

Answer: See response to question 3.

Question 41: Will we be required to provide removable jackets for the valves/backflow preventers etc.

Answer: Yes

End of Addendum No.1