

**RETURN BIDS TO:**  
**RETOURNER LES SOUMISSIONS À:**  
Bid Receiving - PWGSC / Réception des soumissions -  
TPSGC  
11 Laurier St./11 rue Laurier  
Place du Portage, Phase III  
Core 0A1 / Noyau 0A1  
Gatineau, Québec K1A 0S5

**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**  
Construction Services Division/Division des services de  
construction  
11 Laurier St./11 Rue Laurier  
3C2, Place du Portage  
Phase III  
Gatineau, Québec K1A 0S5

<b>Title - Sujet</b> 4th floor drain addition	
<b>Solicitation No. - N° de l'invitation</b> EP077-131829/A	<b>Amendment No. - N° modif.</b> 003
<b>Client Reference No. - N° de référence du client</b> 20131829	<b>Date</b> 2013-04-03
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$FG-343-62327	
<b>File No. - N° de dossier</b> fg343.EP077-131829	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2013-04-17</b>	
<b>Time Zone</b> Fuseau horaire Eastern Standard Time EST	
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Cook, Kristin	<b>Buyer Id - Id de l'acheteur</b> fg343
<b>Telephone No. - N° de téléphone</b> (819) 956-6122 ( )	<b>FAX No. - N° de FAX</b> (819) 956-8335
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> Major General Pearkes Building 101 Colonel By Drive Ottawa, Ontario K1A 0K5	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

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

Solicitation No. - N° de l'invitation

EP077-131829/A

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

20131829

Amd. No. - N° de la modif.

003

File No. - N° du dossier

fg343EP077-131829

Buyer ID - Id de l'acheteur

fg343

CCC No./N° CCC - FMS No/ N° VME

---

## Addendum N° 02

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

---

This **Addendum**, comprising 7 pages, modifies the contract documents as follows:

1. **SPECIFICATIONS DOCUMENT**

1.1. **Thermal Insulation for piping – Section 23 07 15**

1.1.1 Remove existing section and replace with revised attached section.

- END OF ADDENDUM -

PART 1 - GENERAL1.1 REFERENCES

- .1 American Society for Testing and Materials International (ASTM)
  - .1 ASTM C 335-04, Standard Test Method for Steady State Heat Transfer Properties of Horizontal Pipe Insulation.
  - .2 ASTM C 547-2003, Mineral Fiber Pipe Insulation.
- .2 Canadian General Standards Board (CGSB)
  - .1 CGSB 51-GP-52Ma-89, Vapour Barrier, Jacket and Facing Material for Pipe, Duct and Equipment Thermal Insulation.
- .3 Manufacturer's Trade Associations
  - .1 Thermal Insulation Association of Canada (TIAC): National Insulation Standards (Revised 2004).
- .4 Underwriters' Laboratories of Canada (ULC)
  - .1 CAN/ULC-S102-03, Surface Burning Characteristics of Building Materials and Assemblies.
  - .2 CAN/ULC-S701-01, Thermal Insulation, Polystyrene, Boards and Pipe Covering.
  - .3 CAN/ULC-S702-1997, Thermal Insulation, Mineral Fibre, for Buildings
  - .4 CAN/ULC-S702.2-03, Thermal Insulation, Mineral Fibre, for Application Guidelines.

1.2 DEFINITIONS

- .1 For purposes of this section:
  - .1 "CONCEALED" - insulated mechanical services in suspended ceilings and non-accessible chases and furred-in spaces.
  - .2 "EXPOSED" - will mean "not concealed" as specified.
- .2 TIAC ss:
  - .1 CRF: Code Rectangular Finish.
  - .2 CPF: Code Piping Finish.

1.3 ACTION AND INFORMATIONAL SUBMITTALS .1 Submittals: in accordance with Section 01 33 00 - Submittal Procedures.

1.4 QUALITY ASSURANCE .1 Quality assurance : in accordance with Section 01 00 10 - General Instructions.

.2 Health and Safety:  
.1 Do construction occupational health and safety in accordance with Section 01 35 29.06 - Health and Safety Requirements.

PART 2 - PRODUCTS

2.1 FIRE AND SMOKE RATING .1 In accordance with CAN/ULC-S102.  
.1 Maximum flame spread rating: 25.  
.2 Maximum smoke developed rating: 50.

2.2 INSULATION .1 Mineral fibre specified includes glass fibre, rock wool, slag wool.  
.2 Thermal conductivity ("k" factor) not to exceed specified values at 24 degrees C mean temperature when tested in accordance with ASTM C 335.  
.3 TIAC Code A-3: rigid moulded mineral fibre with factory applied vapour retarder jacket.  
.1 Mineral fibre: to CAN/ULC-S702.

- .2 Jacket: to CGSB 51-GP-52Ma.
- .3 Maximum "k" factor: to CAN/ULC-S702.

- .4 TIAC Code C-2: mineral fibre blanket faced with factory applied vapour retarder jacket (as scheduled in PART 3 of this section).

- .1 Mineral fibre: to CAN/ULC-S702  
ASTM C 547.
- .2 Jacket: to CGSB 51-GP-52Ma.
- .3 Maximum "k" factor: to CAN/ULC-S702  
ASTM C 547.

2.3 INSULATION  
SECUREMENT

- .1 Tape: self-adhesive, aluminum, plain, 50 mm wide minimum.
- .2 Contact adhesive: quick setting.
- .3 Canvas adhesive: washable.
- .4 Tie wire: 1.5 mm diameter stainless steel.
- .5 Bands: stainless steel, 19mm wide, 0.5 mm thick.

2.4 VAPOUR RETARDER  
LAP ADHESIVE

- .1 Water based, fire retardant type, compatible with insulation.

2.5 INDOOR VAPOUR  
RETARDER FINISH

- .1 Vinyl emulsion type acrylic, compatible with insulation.

2.6 OUTDOOR VAPOUR  
RETARDER FINISH

- .1 Vinyl emulsion type acrylic, compatible with insulation.

- .2 Reinforcing fabric: fibrous glass, untreated 305 g/m<sup>2</sup>.

2.7 JACKETS

- .1 Canvas:
  - .1 220 and 120 gm/m<sup>2</sup> cotton, plain weave, treated with dilute fire retardant lagging adhesive to ASTM C 921.
  - .2 Lagging adhesive: compatible with insulation.

PART 3 - EXECUTION

3.1 MANUFACTURER'S INSTRUCTIONS

- .1 Compliance: comply with manufacturer's written recommendations or specifications, including product technical bulletins, handling, storage and installation instructions, and datasheet.

3.2 PRE-INSTALLATION REQUIREMENT

- .1 Pressure testing of piping systems and adjacent equipment to be complete, witnessed and certified.
- .2 Surfaces clean, dry, free from foreign material.

3.3 INSTALLATION

- .1 Install in accordance with TIAC National Standards.
- .2 Apply materials in accordance with manufacturers instructions and this specification.
- .3 Use two layers with staggered joints when required nominal wall thickness exceeds 75

- 
- mm.
- .4 Maintain uninterrupted continuity and integrity of vapour retarder jacket and finishes.
    - .1 Install hangers, supports outside vapour retarder jacket.
  - .5 Supports, Hangers:
    - .1 Apply high compressive strength insulation, suitable for service, at oversized saddles and shoes where insulation saddles have not been provided.
- 3.4 INSTALLATION OF ELASTOMERIC INSULATION
- .1 Insulation to remain dry. Overlaps to manufacturers instructions. Ensure tight joints.
  - .2 Provide vapour retarder as recommended by manufacturer.
- 3.5 PIPING INSULATION SCHEDULES
- .1 Includes valves, valve bonnets, strainers, flanges and fittings unless otherwise specified.
  - .2 TIAC Code: A-3.
    - .1 Securements: Tape at 300 mm on centre.
    - .2 Seals: VR lap seal adhesive, VR lagging adhesive.
    - .3 Installation: TIAC Code: 1501-C.
  - .3 TIAC Code: C-2 with vapour retarder jacket.
    - .1 Insulation securements:.
    - .2 Seals: lap seal adhesive, lagging adhesive.
    - .3 Installation: TIAC Code: 1501-C.
  - .4 Thickness of insulation as listed in following table.
    - .1 Run-outs to individual units and equipment not exceeding 4000 mm long.
    - .2 Do not insulate exposed runouts to

plumbing fixtures, chrome plated piping,  
valves, fittings.

Applic ation	Temp degrees Celsius	TIA cod	Pipe sizes (NPS) and insulation thickness (mm)		
			up to 1'	from 1 1/4 to 2	from 2 1/2 to 4
Trap prime seal pipe		A-3	25	25	25
Sanitary		A-3	25	25	25
Domestic		A-3	25	25	25
CWS					
RWL		A-3	25	25	25
and RWP					
Cooling		A-3	25	25	25
Coil cond. drain					

- .5 Finishes:  
.1 Exposed indoors: canvas.

### 3.6 CLEANING

- .1 Proceed in accordance with Section 01 00 10 -  
General Instructions.
- .2 Upon completion and verification of performance  
of installation, remove surplus materials, excess  
materials, rubbish, tools and equipment.

END OF SECTION