



RETOURNER LES SOUMISSIONS À:  
RETURN BIDS TO:

Agence Parcs Canada  
Bid Receiving Unit  
3 Passage du Chien-d'Or, Room 200  
Québec (QC) G1R 3Z8

**AMENDMENT # 2**

**INVITATION TO TENDER  
APPEL D'OFFRES**

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 et aux annexes ci-jointes, les articles et les services énumérés ici et sur toute feuille ci-annexée, au(x) prix indiqué(s).

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 or attached hereto, the supplies and services listed herein or on any attached sheets at the price(s) set out therefore.

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

<b>Sujet - Title :</b> Repair of retaining walls – Lachine Canal	
<b>No. de l'invitation - Solicitation No.</b> 5P300-15-5283/A	<b>Date</b> September 17, 2015
<b>No de référence de SEAG -GETS Reference No.</b>	
<b>No. de référence du client - Client Reference No. –</b>	
<b>L'invitation prend fin – Solicitation Closes</b>  à – at 2:00 PM le – on <b>September 22, 2015</b>	<b>Fuseau horaire - Time Zone</b>  Eastern Daylight Time (EDT)
<b>Adresser toute demande de renseignements à : - Address Inquiries to:</b>  Marilyn Bernier – <a href="mailto:CSQ.Contrats@pc.gc.ca">CSQ.Contrats@pc.gc.ca</a>	
<b>No de téléphone - Telephone No.</b>  (418) 648-4569	<b>No de FAX: - Fax No.</b>  (418) 648-5392
<b>Destinations des biens, services et construction: Destination of Goods, Services, and Construction:</b>	
<b>Raison sociale et adresse du fournisseur/de l'entrepreneur : Vendor/Firm Name and Address</b>	
<b>No de téléphone: - Telephone No.</b> <b>N° de télécopieur: - Facsimile No.</b>	
<b>Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur ( taper ou écrire en caractères d'imprimerie) Name and title of person authorized to sign on behalf of the Vendor/Firm (type or print)</b>	
_____	_____
<b>Nom / Name</b>	<b>Titre /Title</b>
_____	_____
<b>Signature</b>	<b>Date</b>



# MODIFICATION DE SOUMISSION No.2 AMENDMENT TO TENDER

<b>Dossier No – File No</b> <b>5P300-15-5283/A</b>
<b>Date limite au plus tard - Closing Date on or before</b> <b>September 22, 2015 at 2:00 PM</b>
<b>Date d'émission – Date of issue</b> <b>September 22, 2015</b>

<b>Projet - Project</b> <b>Repair of retaining walls – Lachine Canal</b>
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**OBJET DE LA PRÉSENTE MODIFICATION – THE PURPOSE OF THIS AMENDMENT IS TO GIVE EFFECT TO THE FOLLOWING**

This addendum completes, modifies or eliminates certain elements of the tender documents, which the addendum refers to. It is an integral part of the tender documents.

**1. SPECIFICATIONS**

1.1 Section “01 29 00 - Payment Procedures”

The section “01 29 00 - Payment Procedures” from the specifications is cancelled and replaced by the section “01 29 00 – Payment Procedures, revision 01” issued with the present addendum.

1.2 Section “01 35 29.06 – Health and Safety Requirements”

The section “01 35 29.06 - Health and Safety Requirements” from the specification is cancelled and replaced by the section “01 35 29.06 – Health and Safety Requirements, revision 01” issued with this addendum.

1.3 Note that, contrary to what is mentioned in section « 03 33 03 – Concrete Repair », no crack injection is included in this contract.

**2. BID FORMS**

The Bid form is cancelled and replaced by the version “Revision 01 – 2015-09-16” issued with the current addendum.

### 3. PLANS

The sketches PO-EX-01 and PO-EX-02 are issued with the current addendum.

Description of modifications:

- PO-EX-01: Modification of anchor's table (CL-32-114.04)
- PO-EX-02: Welded wire mesh precision on section D – Repair (CL-32-114.04)

**TOUTES LES AUTRES CONDITIONS INCLUSES DANS LES INSTRUCTIONS DE TRAVAIL DEMEURENT LES MÊMES  
/ ALL OTHER CONDITIONS INCLUDED IN THE WORK INSTRUCTIONS REMAIN THE SAME.**

Par la présente nous reconnaissons avoir reçu la version modifiée des instructions et nous attestons avoir modifié notre soumission en conséquence.

We hereby acknowledge receipt of the amendment instructions and confirm that provisions therefore have been made in our tender.

**Pour être prise en considération, toute soumission devra être accompagnée d'un exemplaire signé de la présente modification.** Si votre soumission a déjà été envoyée, veuillez signer et envoyer cette modification par télécopieur/courriel avec toutes révisions faites à votre prix de soumission, à nos bureaux avant la date limite.  
Télécopieur: 418-648-5392

**Signed copy of this amendment must accompany each tender in order that the tender be considered.**  
If your submission has already been sent, please sign and send this amendment by fax / email with any revisions made to your bid price, at our office before the deadline. Fax: 418-648-5392.

Signé - Signed	Titre - Title	Date
Société - Company		

**Part 1            General**

**1.1                REFERENCES**

- .1            Not used.

**Part 2            Explanation of the Bid Form prices**

**2.1                Item 1. – Consultant Site Office, Environment, and General Items**

- .1            Item 1.1 – Construction Facilities
  - .1            The line item 1.1 of the Bid Form is a fixed lump sum amount to compensate all necessary expenses incurred in the execution of the works as well as any other expenses not included in the other Bid Form items, in accordance with the requirements of the specifications.
  - .2            The amount includes, but is not limited to, the following:
    - .1            All that is described in Section 01 52 00, CONSTRUCTION FACILITIES, such as site offices, access roads, platforms, walkways, barges, sanitation facilities, fencing, electricity, water, lighting, furniture, telephone and related services (internet, pagers, fax machine, etc.), heating and ventilation of site offices and storage facilities, scaffolding, construction and maintenance panels, in accordance with the requirements of the specifications and drawings, and as directed by the Consultant.
    - .2            The required coordination with the City of Montreal and other stakeholders, including obtaining all necessary permits to carry out the work.
    - .3            The maintenance of the worksite and of its access routes.
    - .4            All that is required in the following sections and is not directly attributed or related to one of the other items of the Bid Form:
      - Section 01 31 19            PROJECT MEETINGS
      - Section 01 35 29.06        HEALTH AND SAFETY REQUIREMENTS
      - Section 01 52 00            CONSTRUCTION FACILITIES
      - Section 01 74 11            CLEANING
      - Section 01 74 21            CONSTRUCTION/DEMOLITION WASTE MANAGEMENT AND DISPOSAL
    - .5            All costs associated with surveying and staking the works and all other site take-offs and measurements that are not allocated to any of the other items of the Bid Form.
    - .6            The costs of providing a security guard or other means of supervision for the site (if required).
    - .7            Rental costs of land and/or space for the storage of materials.
    - .8            The protection of existing public utilities on the bridges within the work site during construction. When required, this protection includes the removal and reinstallation of the street lampposts, of their underground



conduits and cables, and of their foundation pads. If the Contractor damages these installations during his work, he must replace them at his expense.



- .9 All costs for electricity power and water supply for the whole contract.
  - .3 A portion equal to 20 % of the total amount bid for this item will be paid with the first progress claim, provided that the work has begun.
  - .4 Other progress payments under this item will be paid to a percentage consistent with the general progress of work for each progress claim period.
- .2 Item 1.2 – Environmental Protection Measures
- .1 The line item 1.2 of the Bid Form is a fixed lump sum amount to compensate all necessary expenses incurred for measures to protect the environment in accordance with the requirements of the specifications.
  - .2 The amount includes, but is not limited to, the following:
    - .1 All that is described in Section 01 35 43, *Environmental Procedures* such as the preparation, presentation, and implementation of the environmental protection plan; the preparation, presentation, and implementation of the emergency spill plan; the preparation, presentation, and implementation of the construction facilities location plan location; the preparation, presentation, and implementation of the work zone plans; the preparation, presentation, and implementation of the air pollution prevention plan; the preparation, presentation, and implementation of the contamination prevention plan; the preparation, presentation, and implementation of the wastewater management plan; the preparation, presentation, and implementation of the plan for the designation and protection of wetlands and historical, archaeological, cultural, and biological resources; plant protection measures; temporary facilities for pollution prevention; the preparation, presentation, and implementation of a plan to protect the historical and heritage character of the site.
  - .3 A portion equal to 20 % of the total amount bid for this item will be paid with the first progress claim, provided that the work is begun.
  - .4 Other progress payments under this item will be paid to a percentage consistent with the general progress of work for each progress claim period.



- .3 Item 1.3 – Clearing
- .1 Item 1.3.1 – Clearing of trees and shrubs of less than 100mm in diameter
    - .1 The line item 1.3.1 of the Bid Form is a unit price per square meter (m2) for all costs incurred for the clearing of trees and shrubs according to their dimensions, in accordance with the requirements of the specifications and drawings, and as directed by the Consultant.
    - .2 The amount includes, but is not limited to, the following:
      - .1 Preparation, presentation, and correction, if required, of the Work Plan;
      - .2 The mobilization of labour, tools, and equipment required to carry out the work;



- .3 Supply, transport, handling, maintenance, and removal of access required for clearing works;
  - .4 The clearing of areas identified by the Consultant;
  - .5 Waste disposal requirements;
  - .6 Clean-up at the end of the clearing works;
  - .7 Any incidental expenses.
- .2 Item 1.3.2 – Clearing of trees and shrubs between 100mm and 200mm in diameter
- .1 The line item 1.3.2 of the Bid Form is a unit price per tree or shrub for all costs incurred for the clearing of trees and shrubs between 100mm and 200mm in diameter, in accordance with the requirements of the specifications and drawings, and as directed by the Consultant.
  - .2 The amount includes, but is not limited to, the following:
    - .1 Preparation, presentation, and correction, if required, of the Work Plan;
    - .2 The mobilization of labour, tools, and equipment required to carry out the work;
    - .3 Supply, transport, handling, maintenance, and removal of access required for clearing works;
    - .4 The clearing of areas identified by the Consultant;
    - .5 Waste disposal requirements;
    - .6 Clean-up at the end of the clearing works;
    - .7 Any incidental expenses.

~~.4 Item 1.4 – Removal and Reinstallation of Bollards~~

- ~~.1 The line item 1.4 of the Bid Form is a unit price for the removal and reinstallation of bollards, in accordance with the requirements of the specifications and drawings, and as directed by the Consultant.~~
- ~~.2 The amount includes, but is not limited to, the following:
  - ~~.1 The mobilization of labor, tools, and equipment required to carry out the work;~~
  - ~~.2 Transportation, handling, storage, installation (including new anchors as required);~~
  - ~~.3 Any incidental expenses.~~~~

2.2

**Item 2. – Repair of concrete seat and/or crevices**

- .1 Items 2.1 – Concrete Demolition / Surface Cleaning
  - .1 The line items 2.1 of the Bid Form is price per square meter (m<sup>2</sup>) of concrete surface area, in accordance with the requirements of the specifications and drawings, and as directed by the Consultant.
  - .2 The amount includes, but is not limited to, the following:
    - .1 Preparation, presentation, and correction, if required, of the Work Plan regarding the demolition of the wall;



- .2 The mobilization of labour, tools, and equipment required to carry out the work;
- .3 All required saw cuts;
- .4 The demolition of defective and sound concrete as directed by the Consultant;
- .5 The cleaning of steel reinforcement to be conserved by sandblasting;
- .6 The cleaning of concrete substrate by sandblasting;
- .7 The collection and treatment of materials arising from the cleaning process as prescribed by Section 01 74 21 *Construction / Demolition Waste Management and Disposal*;
- .8 The collection and treatment of demolition materials as prescribed by Section 01 74 21 *Construction / Demolition Waste Management and Disposal*;
- .9 Any incidental expenses.

- .2 Items 2.2 – Reinforcing Steel – Galvanized welded wire mesh
  - .1 Line items 2.2 of the Bid Form are prices per square meter of wire mesh, in accordance with the requirements of the specifications and drawings and as directed by the Consultant.
  - .2 The amount includes, but is not limited to, the following:
    - .1 The preparation, presentation, and correction, if required, of the Work Plan for the installation of reinforcing steel;
    - .2 The mobilization of labour, tools, and equipment required to carry out the work;
    - .3 The preparation, presentation, and correction, if required, of the reinforcement shop drawings and bill of materials;
    - .4 The supply and shaping of wire mesh;
    - .5 Installation of required wire mesh;
    - .6 Any incidental expenses.
- .3 Items 2.3 – Chemical Anchors
  - .1 Line items 2.3 of the Bid Form are unit prices per chemical anchor, in accordance with the requirements of the specifications and drawings and as directed by the Consultant.
  - .2 The amount includes, but is not limited to, the following:
    - .1 The preparation, presentation, and correction, if required, of the chemical anchor shop drawings and technical data sheets;
    - .2 The mobilization of labour, tools, and equipment required to carry out the work;
    - .3 The provision, shaping, handling, transportation, and installation of reinforcement;
    - .4 Drilling and cleaning holes for the installation of chemical anchors;
    - .5 Supply, handling, transportation, and installation of chemical anchors;
    - .6 The provision, shaping, handling, transportation, and installation of steel anchor rods;

.7 The treatment of surplus materials in accordance with the requirements of Section 01 74 21 *Construction / Demolition Waste Management and Disposal*;

.8 Any incidental expenses.

.4 Item 2.4 – Poured Concrete for Wall (optional - with approval only)

.1 Line items 2.4 of the Bid Form, is price per cubic meter (m<sup>3</sup>) of wall concrete, in accordance with the requirements of the specifications and drawings and as directed by the Consultant.

.2 The amount includes, but is not limited to, the following:

.1 The supply, installation, and dismantling of required formwork;

.2 Supply and installation of formwork ties;

.3 Supply and application of repair mortar at formwork tie locations;

.4 Substrate treatment before pouring;

.5 Supply and installation of steel tie wires;

.6 Supply, transportation, handling, and installation of steel elements embedded in concrete, as shown in the drawings;

.7 Supply, installation, vibration, finishing, and wet curing of concrete;

.8 Cleaning concrete surfaces adjacent to the pouring area;

.9 Following the completion of the works, off-site disposal of the formwork materials and all materials used during the correction of faulty repairs;

.10 Treatment of surplus materials in accordance with the requirements of Section 01 74 21 *Construction / Demolition Waste Management and Disposal*;

.11 Any incidental expenses.

.5 Items 2.5 – Shotcrete

.1 Line items 2.5 of the Bid Form, is price per square meter (m<sup>2</sup>) of wall concrete, in accordance with the requirements of the specifications and drawings, and as directed by the Consultant.

.2 The amount includes, but is not limited to, the following:

.1 The supply, installation, and dismantling of required formwork;

.2 Supply and installation of formwork ties;

.3 Supply and application of repair mortar at formwork tie locations;

.4 Substrate treatment before pouring;

.5 Supply and installation of steel tie wires

.6 Supply, transportation, handling, and installation of steel elements embedded in concrete, as shown in the drawings;

.7 Supply, installation, vibration, finishing, and wet curing of concrete;

.8 Cleaning concrete surfaces adjacent to the pouring area;

.9 Following the completion of the works, off-site disposal of the formwork materials and all materials used during the correction of faulty repairs;





- .10 Treatment of surplus materials in accordance with the requirements of Section 01 74 21 *Construction / Demolition Waste Management and Disposal*;
- .11 Any incidental expenses.

**2.3 Item 3 – Provision for Winter Conditions – Cold Weather Concreting**

- .1 Item 3.1 – Temporary Shelter for Concrete Pouring
  - .1 The line item 3.1 of the Bid Form is a price per square meter (m<sup>2</sup>) of shelter surface based on the concrete surface to be protected, in accordance with the requirements of the specifications and drawings and as directed by the Consultant.
  - .2 The amount includes, but is not limited to, the following:
    - .1 Preparation, presentation, and correction, if required, to the description of the shelter.
    - .2 The mobilization of labour, tools, and equipment required to carry out the work;
    - .3 Supply, handling, and transport of materials needed to build the shelter;
    - .4 Installation, maintenance during construction, and dismantling of the temporary shelter upon completion of the work;
    - .5 Transport off-site of the materials;
    - .6 Any incidental expenses.
  - .3 The temporary shelter is payable only if it is required, in writing, by the Consultant.
  - .4 The bid price is paid as follows:
    - .1 60% of the amount after the installation of the shelter to the satisfaction of the Consultant;
    - .2 40% of the amount after the off-site disposal of the shelter's materials.
- .2 Item 3.2 – Heating of Concrete Components
  - .1 The line item 3.2 of the Bid Form is a price per cubic meter (m<sup>3</sup>) of placed concrete or cementitious grout whose components are heated, in accordance with the requirements of the specifications and as directed by the Consultant.
  - .2 The amount includes, but is not limited to, the following:
    - .1 Heating the mixing water (between 40 and 80 °C) used for making the concrete;
    - .2 Heating the aggregates to remove frozen pieces, snow, and ice;
    - .3 Any incidental expenses.
  - .3 Costs for heating of concrete or non-shrink grout components required following the correction of defective work shall be borne by the Contractor.





**Part 3            Products**

**3.1                NOT USED**

.1                Not Used.

**Part 4            Execution**

**4.1                NOT USED**

.1                Not Used.

**END OF SECTION**

**Part 1 General**

**1.1 RELATED REQUIREMENTS**

- .1 Section 02 41 99 – DEMOLITION FOR MINOR WORKS

**1.2 REFERENCES**

- .1 Canada Labour Code, Part 2, Canada Occupational Safety and Health Regulations
- .2 Health Canada, Workplace Hazardous Materials Information System (WHMIS)
- .3 Province of Quebec
  - .1 *Loi sur la santé et la sécurité du travail*, L.R.Q., c. S-2.1- updated 2014.

**1.3 ACTION AND INFORMATIONAL SUBMITTALS**

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Submit site-specific Health and Safety Plan: Within 7 days after date of Notice to Proceed and prior to commencement of Work. Health and Safety Plan must include:
  - .1 Results of site specific safety hazard assessment.
  - .2 Results of safety and health risk or hazard analysis for site tasks and operation found in work plan.
- .3 Submit 2 copies of Contractor's authorized representative's work site health and safety inspection reports to authority having jurisdiction, weekly, as well as to the Consultant.
- .4 Submit copies of reports or directions issued by Federal, Provincial and Territorial health and safety inspectors.
- .5 Submit copies of incident and accident reports.
- .6 Submit the WHMIS material safety data sheets (MSDS).
- .7 The Consultant will review Contractor's site-specific Health and Safety Plan and provide comments to Contractor within 7 days after receipt of plan. Revise plan as appropriate and resubmit plan to Consultant within 5 days after receipt of comments from the Consultant.
- .8 The Consultant's review of Contractor's final Health and Safety plan should not be construed as approval and does not reduce the Contractor's overall responsibility for construction Health and Safety.
- .9 Medical Surveillance: where prescribed by legislation, regulation or safety program, submit certification of medical surveillance for site personnel prior to commencement of Work, and submit additional certifications for any new site personnel to the Consultant.
- .10 On-site Contingency and Emergency Response Plan: address standard operating procedures to be implemented during emergency situations.

**1.4 FILING OF NOTICE**

- .1 File Notice of Project with Provincial Territorial authorities prior to beginning of Work.

### 1.5 SAFETY ASSESSMENT

- .1 Conduct an assessment of the risks and safety hazards present on the site in relation to the works to be performed.
- .2 It is the responsibility of the Contractor to conduct audits to ensure the safety of the work done near the Lachine Canal Walls. These checks are needed to avoid the risks of instability or collapse of the walls.

### 1.6 MEETINGS

- .1 Schedule and administer Health and Safety meetings with the Consultant prior to commencement of Work.
- .2 Notify the Consultant at least five (5) days before this meeting.

### 1.7 REGULATORY REQUIREMENTS

- .1 Perform the Works in accordance with the requirements of the authorities have jurisdiction in the City of Montreal territory.

### 1.8 GENERAL REQUIREMENTS

- .1 Develop written site-specific Health and Safety Plan based on hazard assessment prior to beginning site Work and continue to implement, maintain, and enforce plan until final demobilization from site. Health and Safety Plan must address project specifications.
- .2 The Consultant may respond in writing, where deficiencies or concerns are noted and may request re-submission with correction of deficiencies or concerns.

### 1.9 RESPONSIBILITY

- .1 Be responsible for health and safety of persons on site, safety of property on site and for protection of persons adjacent to site and environment to extent that they may be affected by conduct of Work.
- .2 Comply with and enforce compliance by employees with safety requirements of Contract Documents, applicable federal, provincial, territorial and local statutes, regulations, and ordinances, and with site-specific Health and Safety Plan.
- .3 Contractor shall be the Principal Contractor as described in the Quebec Act Respecting Health and Safety code for the Construction for only their scope and areas of work as defined and described this project specification.

### 1.10 COMPLIANCE REQUIREMENTS

- .1 Comply with the health and safety regulations, *Loi sur la santé et la sécurité du travail, Règlement sur les établissements industriels et commerciaux*, R.R.Q.
- .2 Comply with Canada Labour Code, Canada Occupational Safety and Health Regulations.

### 1.11 UNFORSEEN HAZARDS

- .1 When unforeseen or peculiar safety-related factor, hazard, or condition occurs during performance of Work, follow procedures in place for Employee's Right to Refuse Work

in accordance with Acts and Regulations of the Province having jurisdiction and notify the Consultant verbally and in writing.

### **1.12 HEALTH AND SAFETY CO-ORDINATOR**

- .1 Employ and assign to Work, competent and authorized representative as Health and Safety Co-ordinator. Health and Safety Co-ordinator must:
  - .1 Possess practical construction site experience involving activities associated with concrete repair, electrical works, and paving works.
  - .2 Have working knowledge of occupational safety and health regulations.
  - .3 Be responsible for completing Contractor's Health and Safety Training Sessions and ensuring that personnel not successfully completing required training are not permitted to enter site to perform Work.
  - .4 Be responsible for implementing, enforcing daily and monitoring site-specific Contractor's Health and Safety Plan.
  - .5 Be on site during execution of Work and report directly to and the Consultant following his instructions.

### **1.13 POSTING OF DOCUMENTS**

- .1 Ensure applicable items, articles, notices and orders are posted in conspicuous location on site in accordance with Acts and Regulations of Province Territory having jurisdiction, and in consultation with the Consultant.

### **1.14 CORRECTION OF NON-COMPLIANCE**

- .1 Immediately address health and safety non-compliance issues identified by authority having jurisdiction or by the Consultant.
- .2 Provide Consultant with written report of action taken to correct non-compliance of health and safety issues identified.
- .3 Consultant may stop Work if non-compliance of health and safety regulations is not corrected.

### **1.15 BLASTING**

- .1 Blasting and other use of explosives are not allowed.

### **1.16 POWDER ACTUATED DEVICES**

- .1 Use powder actuated devices only after receipt of written permission from the Consultant.

### **1.17 WORK STOPPAGE**

- .1 Give precedence to safety and health of public and site personnel and protection of environment over cost and schedule considerations for Work.

**Part 2 Products**

**2.1 NOT USED**

.1 Not used.

**Part 3 Execution**

**3.1 NOT USED**

.1 Not used.

**END OF SECTION**



PARKS CANADA AGENCY

REHABILITATION OF CANAL LACHINE WALLS - PHASE #1

PROJECT No : 894-01

IDENTIFICATION OF THE CONSTRUCTION AREA:

Type :	
Side :	Sud
Bassin :	4
5,421	km
7,58	km
2159	m
60	days

FROM STATION:

TO STATION:

TOTAL INTERVENTION LENGTH:

TIME ALLOWED FOR CONSTRUCTION:

**BID FORM**

**TABLE OF UNIT COSTS: it is agreed that the following table is the Table of Unit Costs to be used for the purposes of this Contract**

PAYMENT ITEMS					
N°	Description of work	Unit	Unit cost	Quantity	TOTAL AMOUNT
<b>1.</b>	<b><u>CONSULTANT SITE OFFICE, ENVIRONNEMENT AND GENERAL ITEMS</u></b>				
1.1	Construction Facilities	lump sum		1	
1.2	Environmental Protection Measures	lump sum		1	
1.3	<b>Clearing</b>				
1.3.1	- Clearing of trees and shrubs of less than 100 mm in diameter	cu. m.		45	
1.3.2	- Clearing of trees and shrubs between 100 mm and 200mm in diameter	unit		10	
<b>2.</b>	<b><u>REPAIR OF CONCRETE SEAT AND/OR CREVICES</u></b>				
2.1	Concrete Demolition / Surface Cleaning	sq. m.		600	
2.2	Reinforcing Steel - Galvanized welded wire mesh	sq. m.		700	
2.3	Chemical Anchors	unit		3250	
2.4	Poured Concrete for Wall (Optional - with approval only)	Cu. m.		50	
2.5	Shortcrete	Cu. m.		300	
<b>3</b>	<b><u>PROVISION FOR WINTER CONDITIONS - COLD WEATHER CONCRETING</u></b>				
3.1	Temporary Shelter for Concrete Pouring	sq. m.		600	
3.2	Heating of Concrete Components	cu. m.		150	

**Total of payment items :**

Company : \_\_\_\_\_

Prepared by : \_\_\_\_\_ Date : \_\_\_\_\_

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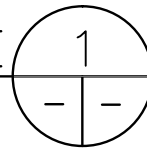
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TABLEAU – PROFONDEUR D'ANCRAGE ANCHOR DEPTH – TABLE				
DIAMÈTRE DES BARRES BAR DIAMETERS	BÉTON CONCRETE		LIMITE ÉLASTIQUE ELASTIC LIMIT (kN)	"B" (mm)
	EXIST.	"A" (mm)		
10M	400	"VOIR NOTE A" "SEE NOTE A"	40	14
15M	730		80	20
20M	1000		120	25
25M	1720		200	28
30M	1960		280	37
35M	2290		400	40

1

ANCRAGE – DÉTAIL TYPIQUE  
ANCHOR – TYPICAL DETAIL



Projet / Project

PARCS CANADA / PARKS CANADA  
RÉFECTION DES MURS DU CANAL DE LACHINE (PHASE 1)  
MONTREAL  
REHABILITATION OF LACHINE CANAL WALLS (PHASE 1)

Titre / Title

TABLEAU DES ANCRAGES MODIFIÉ  
ANCHOR'S TABLE MODIFIED  
ADDENDA 02 / ADDENDUM 02



Stantec Experts-conseils ltée

1200, boul. Saint-Martin Ouest, bureau 300  
Laval (Québec) H7S 2E4  
Téléphone : 514.281.1010  
Télécopieur : 450.668.8232

Préparé  
Prepared  
Dessiné  
Drawn  
Vérifié  
Checked

J. Fontaine  
M. Senterre  
J. Lizotte

Discipline PO  
Échelle  
Scale IND.  
Date 2015-09-16

Chargé pro. / Pro. Manager  
J. Lizotte  
Extrait de  
Extract from  
CL-32-114.03

Serv. resp.  
Serv. char.

Project  
159000023

Op  
Wbs 301

Disc.  
PO

Type  
N° Dessin  
Drawing No. EX-01

Rév.  
Rcv. 0



10 cm  
5  
4  
3  
2  
1  
0

TOUS L'ACIER DOIT ÊTRE GALVANISÉ /  
ALL REINFORCING STEEL MUST BE  
GALVANISED

ANCRAGE CHIMIQUE 15M @ 500 TYP.  
(VOIR DÉTAIL 1, FEUILLE 3)  
15M @ 500 CHEMICAL ANCHORS TYP.  
(SEE DÉTAIL 1, SHEET 3)

TREILLIS À MAILLES SOUDÉES GALVANISÉ  
(51x51-MW 9,1xMW 9,1 DIAMÈTRE NOMINAL 3,4)  
FIXÉ À 500 c/c AUX NOUVEAUX ANCRAGES/  
GALVANIZED WELDED WIRE MESH  
(51x51-MW 9,1xMW 9,1, 3,4 NOMINAL DIAMETER)  
FIXED AT 500 c/c TO NEW ANCHORS.

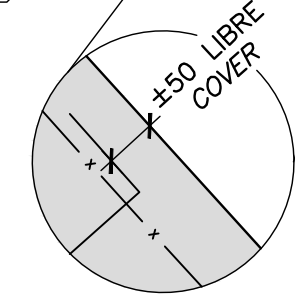
VARIABLE ±300 PROFIL FINAL À AJUSTER ET VALIDER SUR  
PLACE TEL QUE L'EXISTANT / FINAL PROFILE AS PER  
EXISTING TO BE ADJUSTED AND VALIDATED ON SITE.

NIVEAU D'EAU DE NAVIGATION APPROX.  
APPROX. NAVIGATION WATER LEVEL

NIVEAU D'EAU PENDANT LES  
TRAVAUX APPROX.  
APPROX. WATER LEVEL  
DURING THE WORK

SURFACES À  
SCARIFIER ET  
À NETTOYER  
SURFACES TO BE  
ROUGHEN AND  
CLEANED

NOUVEAU BÉTON  
35MPa, VOIR FEUILLE 03  
35 MPa NEW CONCRETE  
SEE SHEET 03




RÉPARATION / REPAIR

RÉPARATION DES ASSISES ET/OU DES CREVASSES DE BÉTON  
REPAIR OF CONCRETE SEATS AND/OR CREVICES

COUPE / SECTION   
ÉCH. / SCALE 1:25

Project / Project  
PARCS CANADA / PARKS CANADA  
RÉFÉCTION DES MURS DU CANAL DE LACHINE (PHASE 1)  
MONTREAL  
REHABILITATION OF LACHINE CANAL WALLS (PHASE 1)

Title / Title  
PRÉCISION DU TREILLIS MÉTALLIQUE  
WELDED WIRE MESH PRECISION  
ADDENDA 02 / ADDENDUM 02

 Stantec Experts-conseils ltée  
1200, boul. Saint-Martin Ouest, bureau 300  
Laval (Québec) H7S 2K4  
Téléphone : 514.281.1010  
Télécopieur : 450.668.8232

Préparé / Prepared J. Fontaine	Discipline / Discipline PO	Chargé pro. / Pro. Manager J. Lizotte
Dessiné / Drawn M. Senterre	Échelle / Scale IND.	Extrait de / Extract from Rev.
Vérfifié / Checked J. Lizotte	Date 2015-09-16	CL-32-114.04 Rev.

Serv. resp. / Serv. char. 159000023	Project / Project 301	Op. Wbs PO	Disc. PO	Type EX-02	N. Dessin / Drawing No. 0	Rev. / Rev. 0
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