



**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 0B2 / Noyau 0B2

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

140 O'Connor Street

140, rue O'Connor

Ontario

Ottawa

K1A 0S5

<b>Title - Sujet</b> building 39- indigenous	
<b>Solicitation No. - N° de l'invitation</b> 01965-210069/A	<b>Amendment No. - N° modif.</b> 004
<b>Client Reference No. - N° de référence du client</b> 01965-210069	<b>Date</b> 2020-10-29
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$\$FG-365-79148	
<b>File No. - N° de dossier</b> fg365.01965-210069	<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 2020-11-04</b>	<b>Time Zone</b> Fuseau horaire Eastern Daylight Saving Time EDT
<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> St-Germain, Sophie	<b>Buyer Id - Id de l'acheteur</b> fg365
<b>Telephone No. - N° de téléphone</b> (613) 297-3462 ( )	<b>FAX No. - N° de FAX</b> ( ) -
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>	

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>

**The following changes to the tender documents are effective immediately. This amendment will form part of the contract documents.**

Amendment 004 is issued for the following:

- 1) To provide Questions and Answers
  - 2) To issue addendum 04
- 

## **(1) Questions and Answers**

### **Question 17;**

Does A800 plan includes into landscape scope of work?

### **Answer 17;**

Bid as per drawings and specifications.

### **Question 18;**

Do you have any spec or details for the flagstone patio pavers?

### **Answer 18;**

Refer to Addendum No.04.

### **Question 19;**

Do you have the supplier name or brand for the benches?

### **Answer 19;**

Bid as per drawings and specifications.

### **Question 20;**

Is the 75mm mulch will cover all the planting area?

### **Answer 20;**

Refer to Addendum No.04.

Solicitation No. - N° de l'invitation  
01965-210069

Amd. No. - N° de la modif.  
004

Buyer ID - Id de l'acheteur  
FG 365

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

File No. - N° du dossier

CCC No./N° CCC - FMS No./N° VME

**Question 21;**

Does asphalt pavement in landscape scope of work?

**Answer 21;**

Bid as per drawings and specifications. Refer to Drawing A100 and specification section 32 12 16.01.

**Question 22;**

What is the KA rating on the 120-208v P1 panel?

**Answer 22;**

Refer to Addendum No.04.

**Question 23:**

Do you know which contractor did the base building controls? Is controls open to anyone for this work?

**Answer 23:**

Bid as per drawings and specifications

**ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME**

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

### **SPECIFICATIONS**

**1. Section 26 24 16.01 – PANELBOARDS, BREAKER TYPE:**

- .1 **DELETE** article 2.1.2 and **REPLACE** with new article 2.1.2 to read:  
120/208V Panelboards: Bus and breakers rated minimum 10kA (symmetrical) interrupting capacity.
- .2 **DELETE** article 2.1.13.

**2. Section 26 28 16.02 – MOLDED CASE CIRCUIT BREAKERS:**

- .3 **DELETE** article 2.1.6 and **REPLACE** with new article 2.1.6 to read:  
Circuit breakers to have minimum 10kAIC for 120/208V rated.

**3. Section 31 32 19.01 – GEOTEXTILES:**

- .1 **ADD** new specification section 31 32 19.01 – Geotextiles (attached).

**4. Section 32 14 10 – UNIT PAVING ON SAND BED:**

- .1 **ADD** new specification section 32 14 10 – Unit Paving on Sand Bed (attached).

### **DRAWINGS**

**1. Drawing A100 – SITE & LANDSCAPE PLAN**

- .1 **DELETE** drawing note 10 and **ADD** with new general note C to read:  
Typical: Supply and install 75mm thick cedar mulch layer over landscaping non-woven geo-textile, clear from immediate base of tree, shrub, plant, over all planting areas.

**2. Drawing S201 – PLAN – GROUND FLOOR**

- .2 **DELETE** drawing note 2 and **ADD** new drawing note 2 to read:  
New HSS 203x203x9.5 column c/w 1200x1200x250 DP. Reinforced concrete pad footing with 5-15M each way with 75mm bottom clear cover.

**End of Addendum No. 04**

## **Part 1 - General**

### **1.1 MEASUREMENT AND PAYMENT**

- .1 Supply and installation of geotextile will not be measured separately for payment.

### **1.2 REFERENCES**

- .1 ASTM International
  - .1 ASTM A123/A123M-09, Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
  - .2 ASTM D4491-99a (2009), Standard Test Methods for Water Permeability of Geotextiles by Permittivity.
  - .3 ASTM D4595-09, Standard Test Method for Tensile Properties of Geotextiles by the Wide-Width Strip Method.
  - .4 ASTM D4716-08, Standard Test Method for Determining the (In-Plane) Flow Rate Per Unit Width and Hydraulic Transmissivity of a Geosynthetic Using a Constant Head.
  - .5 ASTM D4751-04, Standard Test Method for Determining Apparent Opening Size of a Geotextile.
- .2 Canadian General Standards Board (CGSB)
  - .1 CAN/CGSB-4.2 No. 11.2-2004, Textile Test Methods - Bursting Strength - Ball Burst Test (Extension of September 1989).
  - .2 CAN/CGSB-148.1, Methods of Testing Geotextiles and Complete Geomembranes.
    - .1 No. 2-M85, Methods of Testing Geosynthetics - Mass per Unit Area.
    - .2 No. 3-M85, Methods of Testing Geosynthetics - Thickness of Geotextiles.
    - .3 No. 6.1-93, Methods of Testing Geotextiles and Geomembranes - Bursting Strength of Geotextiles Under No Compressive Load.
    - .4 No. 7.3-92, Methods of Testing Geotextiles and Geomembranes - Grab Tensile Test for Geotextiles.
    - .5 No. 10-94, Methods of Testing Geosynthetics - Geotextiles - Filtration Opening Size.
- .3 CSA International
  - .1 CSA-G40.20/G40.21-04 (R2009), General Requirements for Rolled or Welded Structural Quality Steel/Structural Quality Steel.
  - .2 CAN/CSA-G164-M92 (R1998), Hot Dip Galvanizing of Irregularly Shaped Articles.
- .4 Ontario Provincial Standard Specifications (OPSS)
  - .1 OPSS 1860-April 2012, Material Specification for Geotextiles.

### **1.3 ACTION AND INFORMATIONAL SUBMITTALS**

- .1 Submit in accordance with Section 01 33 00 – Submittal Procedures.
- .2 Product Data:
  - .1 Submit manufacturer's instructions, printed product literature and data sheets for geotextiles and include product characteristics, performance criteria, physical size, finish and limitations.
- .3 Samples:
  - .1 Submit following samples 4 weeks prior to beginning Work.
    - .1 Minimum length of 2 m of roll width of geotextile.
    - .2 Methods of joining.
- .4 Test and Evaluation Reports:
  - .1 Submit copies of mill test data and certificate at least 4 weeks prior to start of Work.
- .5 Sustainable Design Submittals:
  - .1 Construction Waste Management:
    - .1 Submit project Waste Management Plan highlighting recycling and salvage requirements.
    - .2 Submit calculations on end-of-project recycling rates, salvage rates, and landfill rates demonstrating that 75% of construction wastes were recycled or salvaged.

### **1.4 DELIVERY, STORAGE AND HANDLING**

- .1 Deliver, store and handle materials in accordance with manufacturer's written instructions.
- .2 Storage and Handling Requirements:
  - .1 Store materials in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
  - .2 Store and protect geotextiles from direct sunlight, ultra-violet rays, excessive heat, mud, dirt, dust, debris and rodents.
  - .3 Replace defective or damaged materials with new.
- .3 Packaging Waste Management: remove for reuse of packaging materials as specified in Waste Reduction Workplan in accordance with Section 01 74 21 – Construction/Demolition Waste Management.

### **1.5 WASTE MANAGEMENT AND DISPOSAL**

- .1 Separate waste materials for re-use and recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management.
- .2 Remove from site and dispose of all packaging materials at appropriate recycling facilities.

- .3 Collect and separate for disposal paper, plastic, polystyrene, corrugated cardboard, packaging material in appropriate on-site bins for recycling in accordance with Waste Management Plan.
- .4 Fold up metal banding, flatten and place in designated area for recycling.

## **Part 2 - Products**

### **2.1 MATERIAL**

- .1 Geotextile: non-woven synthetic fiber fabric, supplied in rolls.
  - .1 Width: 3.0 m minimum.
  - .2 Length: 40.0 m minimum.
  - .3 Composed of: minimum 95% by mass of polypropylene, polyethylene, polyester, or other synthetic polymers with inhibitors added to base plastic to resist deterioration by ultra-violet and heat exposure.
- .2 Physical properties:
  - .1 Thickness: to CAN/CGSB-148.1, No.3, minimum 6 mm.
  - .2 Mass per unit area: to CAN/CGSB-148.1, No.2, minimum 109 g/m<sup>2</sup>.
  - .3 Tensile strength and elongation (in any principal direction): to ASTM D 4595.
    - .1 Tensile strength: minimum 355.86 N, wet condition.
    - .2 Elongation at break: maximum 50%.
    - .3 Seam strength: same or greater than tensile strength of fabric.
  - .4 Grab tensile strength and elongation: to CAN/CGSB-148.1, No.7.3.
    - .1 Breaking force: minimum 355.86 N, wet condition.
    - .2 Elongation at future: maximum 50%.
- .3 Hydraulic properties:
  - .1 Apparent opening size (AOS): to ASTM D 4751, 212 micrometres.
  - .2 Filtration opening size (FOS): to CAN/CGSB-148.1 No.10, OPSS 1860.
  - .3 Permittivity: to ASTM D 4491, 2.2 pers.
  - .4 Securing pins and washers: to CAN/CSA-G40.21, Grade 300W, hot-dipped galvanized with minimum zinc coating of 600 g/m<sup>2</sup> to CAN/CSA G164.

### **Part 3 - Execution**

#### **3.1 EXAMINATION**

- .1 Verification of Conditions: confirm that conditions of substrate previously installed under other Sections or Contracts are acceptable for geotextile material installation in accordance with manufacturer's written instructions.
  - .1 Visually inspect substrate in presence of Departmental Representative.
  - .2 Inform Departmental Representative of unacceptable conditions immediately upon discovery.
  - .3 Proceed with installation only after unacceptable conditions have been remedied and after receipt of written approval to proceed from Departmental Representative.

#### **3.2 INSTALLATION**

- .1 Place geotextile material by unrolling onto graded surface in orientation, manner and locations indicated and retain in position with stakes, pins or stones.
- .2 Place geotextile material smooth and free of tension stress, folds, wrinkles and creases.
- .3 Place geotextile material on sloping surfaces in one continuous length from toe of slope to upper extent of geotextile.
- .4 Overlap each successive strip of geotextile 600 mm over previously laid strip.
- .5 Pin successive strips of geotextile with securing pins at 300mm interval at mid point of lap.
- .6 Protect installed geotextile material from displacement, damage or deterioration before, during and after placement of material layers.
- .7 After installation, cover with overlying layer within 1 hour of placement.
- .8 Replace damaged or deteriorated geotextile to approval of Departmental Representative.
- .9 Place and compact soil layers in accordance with Section 31 23 33.01 – Excavating, Trenching and Backfilling.

#### **3.3 CLEANING**

- .1 Progress Cleaning: clean in accordance with Section 01 74 11 – Cleaning.
  - .1 Leave Work area clean at end of each day.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 – Cleaning.
- .3 Waste Management: separate waste materials for reuse/recycling in accordance with Section 01 74 21 – Construction/Demolition Waste Management.
  - .1 Remove recycling containers and bins from site and dispose of materials at appropriate facility.

**3.4 PROTECTION**

- .1 Vehicular traffic not permitted directly on geotextile.

**END OF SECTION**

## 1 GENERAL

### 1.1 RELATED REQUIREMENTS

- .1 Section 31 32 19\_01 - Geotextiles
- .2 Section 32 14 13 - Precast Concrete Unit Paving.

### 1.2 REFERENCE STANDARDS

- .1 American Society for Testing and Materials International, (ASTM).
  - .1 ASTM C 136/C136M-14, Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates.
  - .2 ASTM D 698-12e2, Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft<sup>2</sup> (600kN-m/m<sup>3</sup>)).
  - .3 ASTM D 1557-12e1, Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft<sup>2</sup> (2,700kN-m/m<sup>3</sup>)).
  - .4 ASTM D 4595-17, Standard Test Method for Tensile Properties of Geotextiles by the Wide Strip Method.
  - .5 ASTM E 11-17, Standard Specification for Woven Wire Test Sieve Cloth and Test Sieves.
- .2 Canadian Standards Association (CSA)
  - .1 CAN/CSA A179-14 (R2019) – Mortar and Grout for Unit Masonry
  - .2 CSA-G40.20/G40.21-04 (R2018), General Requirements for Rolled or Welded Structural Quality Steel/Structural Quality Steel.
- .3 Canadian General Standards Board (CGSB)
  - .1 CAN/CGSB-148.1, Methods of Testing Geotextiles and Complete Geomembranes.
    - .1 No. 2-M85, Methods of Testing Geosynthetics - Mass per Unit Area.
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    - .4 No. 7.3-92, Methods of Testing Geotextiles and Geomembranes - Grab Tensile Test for Geotextiles.
    - .5 No. 10-94, Methods of Testing Geosynthetics - Geotextiles - Filtration Opening Size.
- .4 Ontario Provincial Standard Specifications (OPSS)
  - .1 OPSS 1860-April 2012, Material Specification for Geotextiles.

### 1.3 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit following product test data:
  - .1 Sieve analysis for gradation of bedding and joint material.
- .2 Submit shop drawings in accordance with Section 01 33 00 - Submittal Procedures.

- .3 Submit full size sample of each type paving unit.

#### 1.4 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate waste materials for reuse and recycling in accordance with Section 01 74 19 - Waste Management and Disposal.
- .2 Remove from site and dispose of packaging materials at appropriate recycling facilities.
- .3 Collect and separate for disposal paper, plastic, polystyrene and corrugated cardboard packaging material in appropriate on-site bins for recycling in accordance with Waste Management Plan.
- .4 Divert unused aggregate materials from landfill to facility for reuse as approved by Departmental Representative.
- .5 Divert unused geotextiles from landfill to plastic recycling facility approved by Departmental Representative.
- .6 Fold up metal banding, flatten and place in designated area for recycling.

## 2 PRODUCTS

### 2.1 MATERIALS

- .1 Flagstone (natural stone): Limestone, irregular shape, 38 - 50 mm thick with split finish face top, split bottom and split edges.
- .2 Manufactured sand for bedding: hard, durable, crushed stone particles, conforming to gradation of concrete sand as specified in CAN/CSA A23.1. Sand: free from clay lumps, cementation, organic material, frozen material and other deleterious materials. Do not use limestone screenings or stone dust.

- .1 Gradations: within limits specified when tested to ASTM C 136. 0% to pass 0.075 mm sieve.

Sieve Designation	% Passing
10 mm	[100]
5 mm	[95-100]
2.5 mm	[80-100]
1.25 mm	[50- 90]
0.630 mm	[25- 60]
0.315 mm	[10- 35]
0.160 mm	[2- 10]

- .3 Joint sand: to CSA A179, hard, durable, angular particles, free from clay lumps, cementation, organic material, frozen material and other deleterious materials.
- .4 Geotextile fabric: in accordance with Section 31 32 19\_01 Geotextiles .

### 3 EXECUTION

#### 3.1 PROTECTION

- .1 Prevent damage to buildings, landscaping, curbs, sidewalks, trees, fences, roads and adjacent property. Make good any damage.
- .2 Provide access to building at all times. Coordinate paving schedule to minimize interference with normal use of premises.

#### 3.2 SUBGRADE

- .1 Ensure that subgrade preparation conforms to levels and compaction required to allow for installation of granular base.

#### 3.3 GEOTEXTILE

- .1 Install geotextile filter as indicated.

#### 3.4 GRANULAR BASE

- .1 Base minimum thickness: 200 mm.
- .2 Spread and compact gravel base in uniform layers not exceeding 100 mm compacted thickness.
- .3 Compact base to a density of not less than 95 % Standard Density in accordance with ASTM D698.
- .4 Shape and roll alternately to obtain smooth, even and uniformly compacted granular base and ensure conformity of grades with finish surface.
- .5 Apply water as necessary during compaction to obtain specified density. If granular base is excessively moist, remove it and install more granular material to rid it of sponginess.
- .6 In areas not accessible to rolling equipment, compact to specified density with approved mechanical tampers.
- .7 Ensure top of granular base does not exceed plus or minus 10mm over 3m straightedge.

#### 3.5 BEDDING SAND

- .1 Place and spread bedding sand to 100mm thickness.
- .2 Do not use joint sand for bedding sand.

#### 3. SURFACE COURSE

- .1 Ensure bedding sand and granular base are not saturated prior to placement of flagstone.
- .2 Install flagstone true to grade on the bedding sand.

UNIT PAVING ON SAND BED

- .3 Where required, cut units accurately without damaging edges.
- .4 Flagstone.
  - .1 Install units with 6mm joints.
  - .2 Fill joint spaces to full depth by sweeping in sand.
  - .3 Sweep surface course clean.

**END OF SECTION**