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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

Project: CSA15-G1A

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

Title - Sujet BLDG ENVELOPE REFIT & WINDOW REPLMT		
Solicitation No. - N° de l'invitation 9F030-150993/A		Amendment No. - N° modif. 005
Client Reference No. - N° de référence du client 9F030-150993		Date 2016-08-05
GETS Reference No. - N° de référence de SEAG PW-\$\$\$FG-359-71196		
File No. - N° de dossier fg359.9F030-150993	CCC No./N° CCC - FMS No./N° VME	
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2016-08-15		Time Zone Fuseau horaire Eastern Daylight Saving Time EDT
F.O.B. - F.A.B.		
Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input type="checkbox"/>		
Address Enquiries to: - Adresser toutes questions à: Benoit, Marie-Eve		Buyer Id - Id de l'acheteur fg359
Telephone No. - N° de téléphone (819) 420-0720 ()		FAX No. - N° de FAX () -
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: LABORATOIRE DAVID FLORIDA LABORATORY (DFL) 9F030-SECURITY AND FACILITY 3701, AVENUE CARLING C.P. 11490, SUCC. H OTTAWA, ONTARIO K2H 8S2		

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

9F030-150993/A

Amd. No. - N° de la modif.

005

Buyer ID - Id de l'acheteur

FG359

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

9F030-150993

File No. - N° du dossier

CCC No./N° CCC - FMS No./N° VME

THE PURPOSE OF THIS AMENDMENT IS TO ISSUE THE FOLLOWING:

1. Addendum 001 attached.

ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME.

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

DRAWINGS

1 Architectural

.1 Drawing A100 - Ground Floor Plan:

- .1 Wall Type Legend:
 - .1 **Changed** Z-Girt guage thickness from 18 to 16 ga for Wall Types W2, W2A, W6 & W7.
 - .2 **Added** Wall type W2C to legend
 - .3 **Delete** Wall type W5, P2 and P3 in its entirety.
- .2 **Added** Wall section detail reference 4/A900 & 8/900 to plan.
- .3 **Added** Wall Section reference 1/A601 to plan.
- .4 **Delete** Wall section 3/A600 from plan.
- .5 **Delete** notes 11 & 12 in its entirety.

.2 Drawing A101 - Second Floor Plan:

- .1 Wall Type Legend:
 - .1 **Changed** Z-Girt guage thickness from 18 to 16 ga for Wall Types W2, W2A, W6 & W7.
 - .2 **Added** Wall type W2C to legend
 - .3 **Delete** Wall type W5, P2 and P3 in its entirety.
- .2 **Added** Wall Section reference 1/A601 to plan.
- .3 **Delete** Wall section 3/A600 from plan.
- .4 **Delete** note 5 in its entirety.

.3 Drawing A102 - Third Floor Plan:

- .1 Wall Type Legend:
 - .1 **Changed** Z-Girt guage thickness from 18 to 16 ga for Wall Types W2, W2A, W6 & W7.
 - .2 **Added** Wall type W2C to legend
 - .3 **Delete** Wall type W5, P2 and P3 in its entirety.
- .2 **Added** Wall Section reference 1/A601 to plan.
- .3 **Delete** Wall section 3/A600 from plan.

.4 Drawing A103 - Fourth Floor Plan:

- .1 Wall Type Legend:
 - .1 **Changed** Z-Girt guage thickness from 18 to 16 ga for Wall Types W2, W2A, W6 & W7.
 - .2 **Added** Wall type W2C to legend
 - .3 **Delete** Wall type W5, P2 and P3 in its entirety.

.5 Drawing A104 - Roof Plan:

- .1 **Added** Section references 13/A104, 6/A900 & 9/A900 to plan.
 - .2 **Added** Wall tags W1A & W2C to plan.
 - .3 **Revised** note #34 on A104
 - .4 **Delete** note 2 in its entirety and replace with:
 - .1 New metal flashing, replace existing wood backing
 - .5 **Delete** note 4 in its entirety.
 - .6 **Added** detail 13/A104 to sheet.
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.6 Drawing A400 - Elevations:

- .1 **Revised** plan detail reference 2/A801 to 11/A801.
- .2 **Added** note 19 to 2/A400.
- .3 **Delete** note 17 in its entirety.

.7 Drawing A401 - Elevations:

- .1 **Delete** note 17 in its entirety.

.8 Drawing A402 - Elevations:

- .1 **Revise** note #28 to 104 Z-Girt @ 425mm o.c.
- .2 **Added** dimensions to Elevations 1/A402, 2/A402 & 3/A402
- .3 **Delete** note 17 in its entirety.

.9 Drawing A403 – Elevations Fire Compartments

- .1 **Revise** note #2 to: Location of horizontal fire compartments. Refer to detail on 3 on A801. Fire compartments to have a maximum distance of **3m**.

.10 Drawing A600 - Wall Sections:

- .1 **Revise** note #6 to 104 Z-Girt @ 425mm o.c.
- .2 **Revise** note #8 to W200 x 86 Steel Column.
- .3 **Revise** note #13 to 203 x 203 x 6.4 HSS.
- .4 **Added** drawing note tags #6 & #10 to 3/A600 & 4/A600.
- .5 **Revise** wall section 1/A600.
- .6 **Revised** Grid Line 19 to Hy on Wall section 4/A600.
- .7 **Change** note tag #8 to #31 on 4/A600

.11 Drawing A605 - Wall Section:

- .1 **Revise** note #6 to 104 Z-Girt @ 425mm o.c.
- .2 **Revise** note #7 to Reserved.
- .3 **Revise** note #12 to Steel Plate.
- .4 **Revise** note #13 to 203 x 203 x 6.4 HSS.
- .5 **Revise** note #24 to Reserved.
- .6 **Added** notes #37 & #38 to drawing notes & 3/A605 & 4/A605.
- .7 **Added** Callouts 5/A904, 6/A904, 7/A904 & 8/A904 to Wall Section 3/A605 & 4/605.

.12 Drawing A800 - Plan Details:

- .1 **Revise** detail 4/A800

.13 Drawing A801 - Plan Details:

- .1 **Revise** note #27 to HSS 203x203x6.4.
- .2 **Revised** drawing title for 2/A801 & 3/A801.
- .3 **Add** dimensions to 2/A801 & 11/A801.
- .4 **Added** note #40 to Drawing Notes.

.14 Drawing A900 - Section Details:

- .1 **Added** notes #51-#64 to Drawing notes.
 - .2 **Revise** note #14 to 203 vertical Z-Girts.
 - .3 **Revise** note #17 to Steel stiffener refer to structural.
 - .4 **Added** note #1 to 5/A900 & 9/A900.
 - .5 **Revise** Detail 1/A900.
 - .6 **Added** new detail 4/A900, 8/A900, 11/900, 12/900 & 13/A900 to sheet.
 - .7 **Delete** wall type marker PA-1 from detail 1/A900.
 - .8 **Delete** wall type marker PA-2 from detail 5/A900.
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.15 Drawing A903 - Section Details:

- .1 **Added** notes #35-#56 to drawing notes.
- .2 **Added** new detail 10/A903 & 14/A903.
- .3 **Revised** detail 3/A903, 5/A903 & 7/A903
- .4 **Changed** note #38 to #37 in 12/A903
- .5 **Changed** note #38 to #37 in 13/A903

.16 Drawing A904 - Section Details:

- .1 **Added** notes #44 & #45 to Drawing notes.
- .2 **Revise** note #12 to Steel Plate refer to structural.
- .3 **Revise** note #13 to 203x203x6.4 HSS
- .4 **Delete** note #37 from detail 2/A904 & 3/A904.
- .5 **Add** note #45 to detail 1/A904 & 5/A904.
- .6 **Add** dimension for extent of insulation underground on detail 4/A904 & 8/A904.
- .7 **Delete** W1 wall tag from detail from 5/A904

.17 Drawing D104 - Demo Roof Plan:

- .1 **Delete** drawing note #4 in its entirety and replace with:
 - .1 Remove metal cap flashing and parapet structure. Where existing roof is to remain, remove 300mm wide strip of existing roofing and insulation to allow for new parapet roofing tie in.
- .2 **Delete** drawing note #14 in its entirety and replace with
 - .1 Remove 300mm wide strip of existing roofing and insulation to allow for new parapet roofing tie in. Protect existing roofing to remain from damage caused by demolition process.
- .3 **Added** detail 8/D104 to drawing sheet.

.18 Drawing D400 - Demo Elevations:

- .1 **Delete** drawing note #15 in its entirety and replace with:
 - .1 Remove metal cap flashing and parapet structure

.19 Drawing D600 - Demo Wall Sections:

- .1 **Delete** drawing note #8 in its entirety and replace with:
 - .1 Remove 300mm wide strip of existing roofing and insulation to allow for new parapet roofing tie in. Protect existing roofing to remain from damage caused by demolition process.

.20 Drawing D601 - Demo Wall Sections:

- .1 **Delete** drawing note #8 in its entirety and replace with:
 - .1 Remove 300mm wide strip of existing roofing and insulation to allow for new parapet roofing tie in. Protect existing roofing to remain from damage caused by demolition process.

2 Structural

.1 Drawing S100 – Roof Plan:

- .1 **Added** Wall section detail reference 1/S206, 2/S206, 3/S206, 4/S206 & 5/S206 to plan.
- .2 **Added** Three proposed access ladder (caged) locations.
- .3 **Added** One proposed access ladder (open) location.
- .4 **Notes:**
 - .1 **Added** Approximate locations where penetrations to existing liner panel will be required to notes legend.

.2 Drawing S101 – Roof Plan Callout:

- .1 **Added** Wall section detail reference 1/S206, 2/S206 & 4/S206 to plan.
- .2 **Added** One proposed access ladder (caged) location.
- .3 **Added** One proposed access ladder (open) location.
- .4 **Notes:**
 - .1 **Added** Approximate locations where penetrations to existing liner panel will be required to notes legend.

.3 Drawing S102 – Roof Plan Callout:

- .1 **Added** Wall section detail reference 3/S206, 4/S206 & 5/S206 to plan.
- .2 **Added** Two proposed access ladder (caged) locations.
- .3 **Notes:**
 - .1 **Added** Approximate locations where penetrations to existing liner panel will be required to notes legend.

.4 Drawing S200 – Sections and Details:

- .1 **Revise** Wall section 1/S200.
- .2 **Revise** Wall section 2/S200.
- .3 **Revise** Wall section 3/S200.
- .4 **Revise** Wall section detail A/S200.

.5 Drawing S203 – Sections and Details:

- .1 **Revise** Wall section 2/S203.
- .2 **Revise** Wall section 3/S203.
- .3 **Revise** Wall section 4/S203.
- .4 **Revise** Wall section detail E/S203.
- .5 **Added** Callout G/S203 to wall section 4/S203.

.6 Drawing S204 – Sections and Details:

- .1 **Revise** Wall section detail A/S204.
- .2 **Revise** Wall section detail E/S204.

.7 Drawing S206 – Sections and Details:

- .1 **Added** Wall section 1/S206.
- .2 **Added** Wall section 2/S206.
- .3 **Added** Wall section 3/S206.
- .4 **Added** Wall section 4/S206.
- .5 **Added** Wall section 5/S206.

3 Mechanical

.1 Drawing M-100:

- .1 New detail 4-M203 has been added to the project.

.2 Drawing M-200:

- .1 Notes modification cancelling removal and install of generator exhaust piping.

.3 Drawing M-203:

- .1 New detail 3: Removal of existing hydronic heating coils at the Anechoic Chamber's doors. Glycol piping to be capped.
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.4 Drawing M-204:

- .1 Detail 2 and 3: revised details with more information and clarification.

.5 Drawing M-205:

- .1 Detail 1: Exhaust fan is to be seismically secured to the exterior wall using longitudinal and lateral restraints. Roof penetrations are not permitted.

.6 Drawing M-206:

- .1 Gas piping is to be seismically secured to parapet using seismic restraints. Roof penetrations are not permitted
- .2 Detail 2: gas piping layout has been revised.

4 Electrical

.1 Drawing E-001

- 1. New extract

.2 Drawing E-100/101/102/200/201/202:

- 1. At various locations, exhaust fans and motor dampers need to be disconnected and reconnected after construction.
- 2. Minor adjustments, refer to drawings.

.3 Drawing E-203:

- 1. Supply a LED6 by the LED controller for testing purposes.

.4 Drawing E-210:

- 1. The cable installation layout is modified.
- 2. A diagram showing cable routing within fixtures is added.

.5 Drawing E-211:

- 1. New drawing to show the cable transitions from the fixtures to the conduits.

SPECIFICATIONS

1 Architectural

.1 Section 01 21 13 - Allowances

- .1 **ADD** the following to section 1.8:

- .1 Unforeseen Penetrations in Liner Panel \$10,000

.2 Section 01 78 00 - Closeout Submittals

- .1 **Delete** article 4.2.1 in its entirety and replace with:

- .1 At the completion of the project and prior to final inspection submit the As-Built Drawings to the Departmental Representative for the production of Project Record Drawings.

- .2 **Delete** article 4.2.2 in its entirety.

- .3 **Delete** article 4.3 in its entirety and replace with:

- .1 The Contractor's Submittal: Project As-Built Drawings are part of the Contract. An appropriate sum will be held in a deficiency fund until all documents have been satisfactorily completed and received by the Departmental Representative.

.3 Section 07 42 43 - Composite Metal Wall Panels

.1 ADD the following to 1.3

- .3** Underwriters' Laboratory of Canada (ULC)
 - .1 CAN/ULC-S102-10 'Test for surface burning characteristics of building materials and assemblies'
 - .2 CAN/ULC-S101-07 'Fire Endurance Test of Building Construction and Materials'
 - .3 CAN/ULC-S134-92 'Fire Test of Exterior Wall Assemblies'

.2 ADD the following to 2.2.1:

- .7 Tested and complies with CAN/ULC-S134, S101 and S102 for use as cladding on walls required to be on non-combustible construction as defined in the NBCC and OBC.

.3 ADD the following to 2.1.1:

- .4** AlpolicFR by Mitsubishi Plastics.

2 Structural

.1 Not used

3 ElectroMechanical

.1 Section 01 91 13 – General Commissioning (CX) Requirements

.1 ADD new article 1.30 as follows:

1.30 LIGHTING INSTALLATION AND TESTING

- .1** The commissioning is to include a light programming phase.
- .2** Representative from the lighting manufacturer is to be present during programming phase.
- .3** During the light programming phase program 6 different scenes:
 - .1** Scene one:
 - .1** LED1: All fixtures on
 - .2** LED1R:
 - .1** White sections on
 - .2** Colour changing section to light up individually, in sequence. The colour changing section of the most left, on the North Elevation, is to light up (Red) for a specific amount of time (TBD during commissioning period). Then it is turned off. Next, the second most left colour changing module on North elevation is to light up for the same amount of time and same colour as the first fixture. The pattern is to continue subsequently to all colours changing module going from left to right. Once all the colour changing sections on the North Elevation have been turned on and turned off, the first module on the West wall is to turn on. The sequence is to continue until the most right colour

changing module on the West wall has been turned on and off. Once all the fixtures have turned on once, the pattern is to restart with the first module of the sequence.

- .3 LED2: All fixtures on
 - .4 LED4A All fixtures on
 - .5 LED4B All fixtures on
 - .2 Scene two:
 - .1 LED1: All fixtures on
 - .2 LED1R:
 - .1 White Sections on
 - .2 All colour changing sections to be on. The colour is to change in a pattern that allows the module to display all available colours in a seemingly infinite transition.
 - .3 LED2: All fixtures on
 - .4 LED4A All fixtures on
 - .5 LED4B All fixtures on
 - .3 Scene three:
 - .1 LED1/LED1R/LED2:
 - .1 Fixtures to light up in sequence. The most left fixture on the North Elevation is to light up for a specific amount of time (TBD during commissioning period). Then it is turned off. Next, the second most left fixture on North elevation is to light up for the same amount of time, same brightness pattern and same colour as the first fixture. The pattern is to continue subsequently to fixtures going from left to right. Once all the fixtures on the North Elevation have been turned and turned off, the first fixture on the West wall is to turn on. The sequence is to continue until the most right fixture on the West wall. Once all the fixtures have turned on once, the pattern is to restart with the first module of the sequence.
 - .2 LED4A All fixtures on
 - .3 LED4B All fixtures on
 - .4 Scene four:
 - .1 LED1: All fixtures on
 - .2 LED1R:
 - .1 White Sections on
 - .2 Colour changing section to be off.
 - .3 LED2: All fixtures on
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- .4 LED4A All fixtures on
- .5 LED4B All fixtures on
- .5 Scene five:
 - .1 Same as scene 1 with colour changing module a different colour (to be determined during Cx phase)
- .6 Scene six:
 - .1 To be specified by departmental representative during commissioning phase.
- .4 The white and colour changing section of LED6 are to match the colour of the colour changing sections and white section of LED1R.
- .5 The brightness for all scenes is to be adjusted on site.
- .6 All scenes are to dim fixtures during the 11pm to 6am period.
- .7 Testing is to be performed after sunset, before sunrise.
- .8 Lighting system to start automatically after sunset and is to stop at sunrise.
- .9 Scenes are to be selected by departmental representative without requiring new programming.

4 Mechanical

- .2 **Section 23 37 20 – Louvres, Intakes and Vents**
 - .1 Delete in its entirety and replace with revised section 23 37 20 attached.
- .3 **Section 23 51 00 – Breeching, Chimney and Stacks**
 - .1 Delete in its entirety and replace with revised section 23 51 00 attached.

5 Electrical

- .4 **Section 26 50 00 – Lighting**
 - .1 **Delete** article 1.3.2.3 in its entirety and replace with:
 - .3 Provide cable layout in PDF format, showing all connections and cable run between LED1, LED1R, LED2, LED4A, LED4B and light controller. Layout is also to show all building penetration and list all rooms that the contractor will need to access.
- .5 **Section 26 50 01 – Appendix | List of Lighting Fixtures**
 - .1 Delete in its entirety and replace with revised section 26 50 01 attached.

END OF ADDENDUM