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**11 Laurier St. / 11, rue Laurier**  
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**Core 0A1 / Noyau 0A1**  
**Gatineau, Québec K1A 0S5**  
**Bid Fax: (819) 997-9776**

## **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**  
Electrical & Electronics Products Division  
11 Laurier St./11, rue Laurier  
7B3, Place du Portage, Phase III  
Gatineau, Québec K1A 0S5

<b>Title - Sujet</b> Closed Circuit Television (CCTV)	
<b>Solicitation No. - N° de l'invitation</b> 21120-141538/A	<b>Amendment No. - N° modif.</b> 002
<b>Client Reference No. - N° de référence du client</b> 21120-14-1991538	<b>Date</b> 2014-04-30
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$HN-313-64788	
<b>File No. - N° de dossier</b> hn313.21120-141538	<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 2014-05-07</b>	
<b>Time Zone</b> <b>Fuseau horaire</b> Eastern Daylight Saving Time EDT	
<b>F.O.B. - F.A.B.</b> Specified Herein - Précisé dans les présentes <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input type="checkbox"/> <b>Other-Autre:</b> <input checked="" type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Kelly, Ruth	<b>Buyer Id - Id de l'acheteur</b> hn313
<b>Telephone No. - N° de téléphone</b> (819) 956-3588 ( )	<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>

Solicitation No. - N° de l'invitation

21120-141538/A

Amd. No. - N° de la modif.

002

Buyer ID - Id de l'acheteur

hn313

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

21120-14-1991538

File No. - N° du dossier

hn31321120-141538

CCC No./N° CCC - FMS No/ N° VME

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Disponible sur demande seulement.



**CORRECTIONAL SERVICES CANADA  
TECHNICAL SERVICES BRANCH  
ELECTRONIC SECURITY SYSTEMS**



ES/STD-0232  
Revision 1  
2014 February 18

**ELECTRONIC ENGINEERING STANDARD  
FIXED NETWORK COLOUR DOME CAMERA  
FOR USE IN FEDERAL CORRECTIONAL INSTITUTIONS**

**AUTHORITY**

Acquisition of a camera for the identified purposes that is not in compliance with this standard must be approved by the Design Authority.

Recommended corrections, additions or deletions should be addressed to the Design Authority at the following address:

Director, Electronic Security Systems  
Correctional Service of Canada  
340 Laurier Avenue West,  
Ottawa, Ontario  
K1A 0P9

Prepared by:

Electronic Systems Engineer,  
Electronics Security Systems

Approved by:

Director,  
Electronic Security Systems

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### TABLE OF REVISIONS

Revision	Paragraph	Comment
0	N/A	Original
1	All	New structure and change to merge indoor and outdoor.

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## TABLE OF CONTENTS

<b>TABLE OF REVISIONS</b> .....	<b>2</b>
<b>TABLE OF CONTENTS</b> .....	<b>3</b>
<b>TABLE OF ABBREVIATIONS</b> .....	<b>4</b>
<b>TABLE OF DEFINITIONS</b> .....	<b>5</b>
<b>1 INTRODUCTION</b> .....	<b>6</b>
1.1 Overview.....	6
1.2 Purpose .....	6
<b>2 REFERENCES</b> .....	<b>7</b>
2.1 Specifications, Standards, and Statements of Work .....	7
<b>3 PHYSICAL</b> .....	<b>8</b>
3.1 Dimensions .....	8
3.2 Environment.....	8
3.3 Interference .....	8
3.4 Reliability.....	8
3.5 Safety .....	8
<b>4 OPERATIONAL</b> .....	<b>9</b>
4.1 Camera .....	9
4.2 Lens .....	9
4.3 Video .....	9
<b>5 INTERFACE</b> .....	<b>9</b>
5.1 Ports .....	10
5.2 Power .....	10
5.3 Recording Compatibility .....	10

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## TABLE OF ABBREVIATIONS

Abbreviation	Expansion
AGC	Automatic Gain Control
CB	Citizen's Band
CSC	Correctional Service Canada
IEC	International Electrotechnical Commission
IEEE	Institute of Electrical and Electronics Engineers
MJPEG	Motion Joint Photographic Experts Group
MTBF	Mean Time Between Failures
ONVIF	Open Network Video Interface Forum
PoE	Power over Ethernet
TCP/IP	Transmission Control Protocol/Internet Protocol
UHF	Ultra High Frequency
VHF	Very High Frequency

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## TABLE OF DEFINITIONS

Term	Definition
Design Authority	Director, Electronic Security Systems

## 1 INTRODUCTION

### 1.1 Overview

- .1 This standard defines the requirements of Correctional Service Canada (CSC) for a fixed focus, network capable, dome camera for use at federal correctional institutions.

### 1.2 Purpose

- .1 The cameras are deployed for both observation and evidentiary use.
- .2 These cameras are for deployment for all outdoor fixed camera locations **except**:
  - .1 facility perimeter;
- .3 These cameras are for deployment for all indoor fixed camera locations **except**:
  - .1 observation cells;
  - .2 principal entrance panoramic;



## 2 REFERENCES

### 2.1 Specifications, Standards, and Statements of Work

- .1 Access to non-government specifications is the responsibility of the contractor.

Number	Title
IEC EN60529	International Electrotechnical Commission Degrees of protection provided by enclosures (IP Code)
IEC EN60950-1	International Electrotechnical Commission Information technology equipment – Safety
IEC EN62262	International Electrotechnical Commission Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts
IEEE 802.3at	IEEE Standard for Information technology – Telecommunications and information exchange between systems – Local and metropolitan area networks – Specific requirements Part 3: Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications Amendment 3: Data Terminal Equipment (DTE) Power via the Media Dependent Interface (MDI) Enhancements
IEEE 802.3u	IEEE Standards for Local and Metropolitan Area Networks: Supplement to Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications Media Access Control (MAC) Parameters, Physical Layer, Medium Attachment Units, and Repeater for 100 Mb/s Operation, Type 100BASE-T

### 3 PHYSICAL

#### 3.1 Dimensions

- .1 The camera case and dome must:
  - .1 measure a base diameter less than 200mm;
  - .2 measure from base to top of dome of less than 175mm excluding any mount;
  - .3 weigh less than 2.5kg;

#### 3.2 Environment

- .1 The camera case and dome must:
  - .1 meet or exceed IEC EN60529 IP66 dust and water resistance when mounted;
  - .2 meet or exceed IEC EN62262 IK10 impact resistance;
  - .3 have threaded openings for conduits;
  - .4 have a threaded plug to seal all unused openings;
  - .5 have set-screws to secure all conduit and plugs from inside the dome;
  - .6 have tamper resistant heads on all externally accessible screws;
  - .7 have a permanently affixed label on the interior of the unit which identifies the manufacturer, the model or assembly number, the serial number and the power requirement;
  - .8 have a permanently affixed label on the exterior of the unit which identifies the manufacturer, the model or assembly number, the serial number and the power requirement;
- .2 The camera must:
  - .1 be capable of continuous operation;
  - .2 start and operate from -40°C to 50°C;
  - .3 start and operate from 0 to 100% condensing humidity;

#### 3.3 Interference

- .1 The camera must operate correctly in the presence of:
  - .1 5 watt CB transceiver at 1 metre or more;
  - .2 6 watt VHF and UHF transceivers at 1 metre or more;
  - .3 25 mW 400-450 MHz Personal Portable Transmitters at 1 metre or more;
  - .4 Other radio frequency transmitting, receiving, and distribution equipment at 5 metres or more;
  - .5 Computer work stations at 5 metres or more;

#### 3.4 Reliability

- .1 The camera must have an MTBF of at least 25,000 hours.

#### 3.5 Safety

- .1 The camera must meet IEC 60950-1 or the CSA equivalent.

## **4 OPERATIONAL**

### **4.1 Camera**

- .1 The camera must retain its configuration over a power cycle.
- .2 The image sensor must:
  - .1 include automatic or remote back focus;
  - .2 have a minimum of 480,000 pixels (horizontal x vertical);
  - .3 have day (colour) and night (black and white) modes;
  - .4 automatic removable infrared cut filter for day/night transition;
  - .5 have 0.5 lux or less minimum illumination for day mode;
  - .6 have 0.1 lux or less minimum illumination for night mode;
  - .7 include Automatic Gain Control (AGC);
  - .8 include extended dynamic range processing;

### **4.2 Lens**

- .1 The camera lens must:
  - .1 have a 35° to 80° or greater horizontal angular view varifocal lens
  - .2 be approved by the manufacturer of the camera for that camera;

### **4.3 Video**

- .1 The video encoding must:
  - .1 support H.264 configurable I-frame frequency of at least 3 per second;
  - .2 support H.264 constant bit rate transmission mode;
  - .3 support H.264 frame rate transmission mode;
  - .4 support at least 3 levels of H.264 image quality;
  - .5 support at least 3 levels of MJPEG image quality;
- .2 The video output must:
  - .1 include an on-screen, programmable character generation overlay capability with a minimum of 8 visible characters;
  - .2 support at least two simultaneous H.264 video streams at 30 frames per second with at least 480,000 pixel resolution;
  - .3 support at least two simultaneous video streams, one H.264 and one MJPEG at 15 frames per second with at least 480,000 pixel resolution;

## **5 INTERFACE**

### **5.1 Ports**

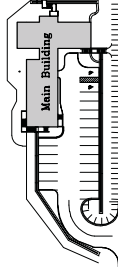
- .1 The camera must:
  - .1 interface over IPV4 TCP/IP;
  - .2 be able to operate on 100Base-TX (IEEE 802.3u);
  - .3 connect using an RJ-45 connector;
  - .4 be ONVIF compliant;

### **5.2 Power**

- .1 The camera must be a Type 1 powered device operating solely from Power over Ethernet (PoE) compliant with IEEE 802.3at Class 0, 1, 2, or 3.

### **5.3 Video Management System Compatibility**

- .1 The camera model must be identified as “Certified” or “Supported by Design” in the Genetec Omnicast Supported Hardware camera list.



# RANGE CAMERA PROJECT

Institution Établissement  
**SAINT JOHN N.B.**

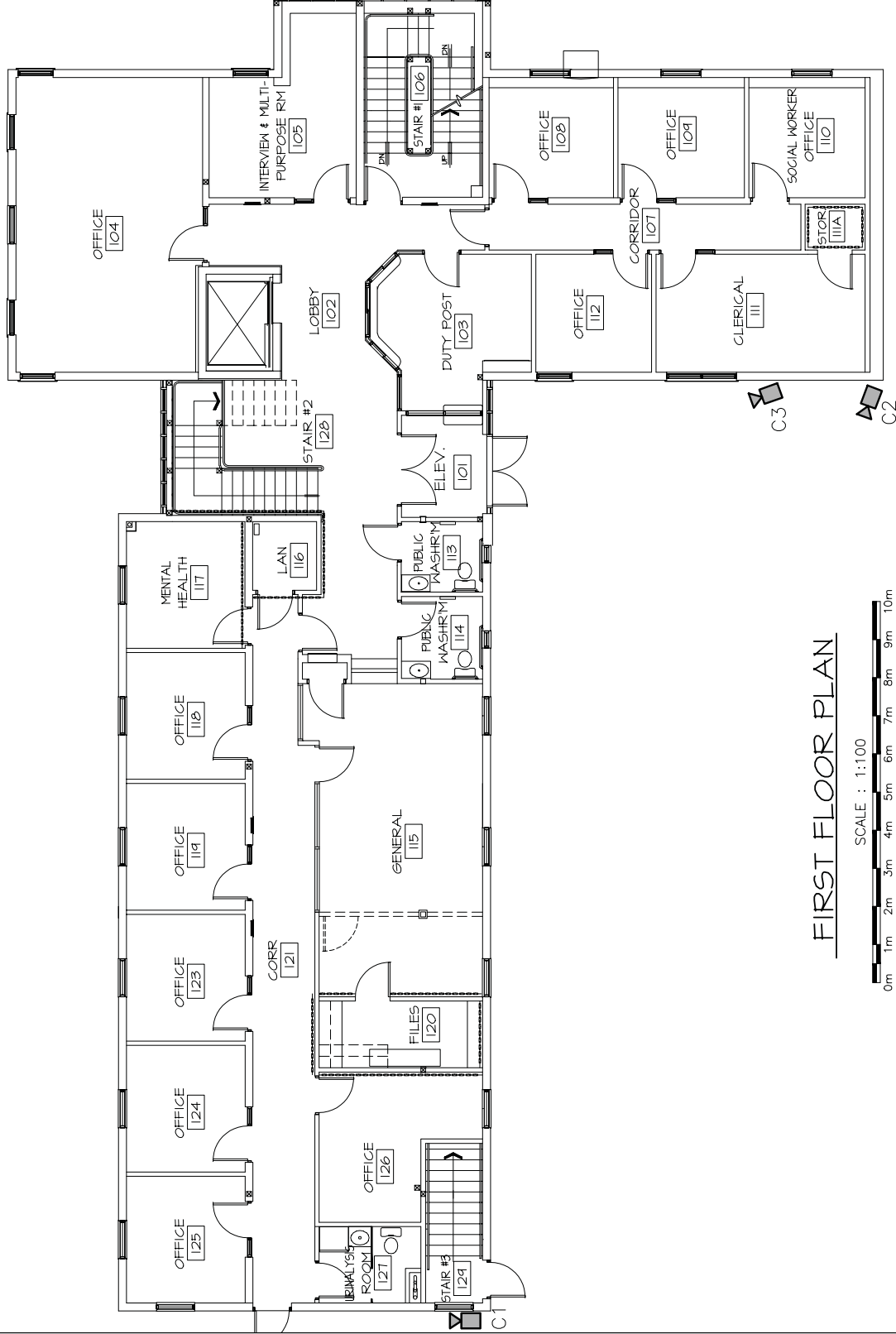
Building Name Nom de Bâtiment  
**MAIN BUILDING**

Building # # de Bâtiment  
**01**

Floor Étage  
**LEVEL 1**

Date Modified Date/Modifié  
**2010 - 02 - 17**

Legend Légende  
CAMERA No.   
NVUS = NETWORK VIDEO  
USER SYSTEM



## FIRST FLOOR PLAN

SCALE : 1:100

