

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
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

Title - Sujet Closed Circuit Television (CCTV)	
Solicitation No. - N° de l'invitation 21120-141538/A	Amendment No. - N° modif. 002
Client Reference No. - N° de référence du client 21120-14-1991538	Date 2014-04-30
GETS Reference No. - N° de référence de SEAG PW-\$\$HN-313-64788	
File No. - N° de dossier hn313.21120-141538	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2014-05-07	
Time Zone Fuseau horaire Eastern Daylight Saving Time EDT	
F.O.B. - F.A.B. Specified Herein - Précisé dans les présentes	
Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input checked="" type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Kelly, Ruth	Buyer Id - Id de l'acheteur hn313
Telephone No. - N° de téléphone (819) 956-3588 ()	FAX No. - N° de FAX () -
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	

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

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

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

TABLE OF REVISIONS

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

TABLE OF CONTENTS

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

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

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

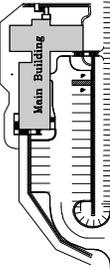
- .1 The camera must:
 - .1 interface over IPV4 TCP/IP;
 - .2 be able to operate on 100Base-TX (IEEE 802.3u);
 - .3 connect using an RJ-45 connector;
 - .4 be ONVIF compliant;

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.

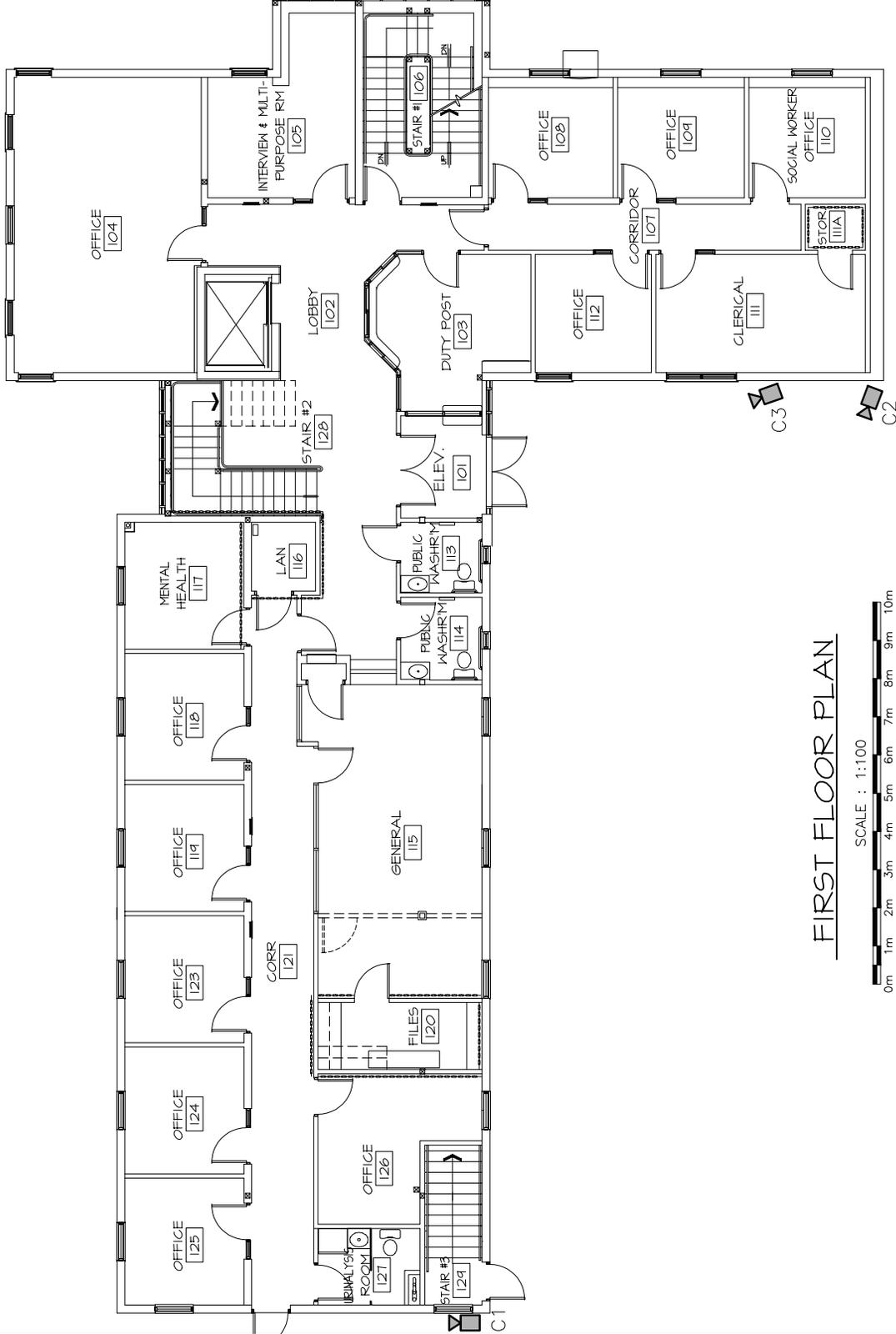
Building Name Nom de Bâtiment
MAIN BUILDING

Building # # de Bâtiment
01

Floor Étage
LEVEL 1

Date Modified Date/Modifier
2010 - 02 - 17

Legend Légende
CAMERA No.
NVUS = NETWORK VIDEO USER SYSTEM



FIRST FLOOR PLAN

SCALE : 1:100

