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


2017 May, 12

**SCOPE OF WORK
FOR
INSTALLATION OF PERSONAL PROTECTION ALARM RECEIVERS
AT
DORCHESTER MINIMUM INSTITUTION**

AUTHORITY

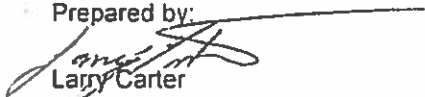
This Scope of work is approved by the Correctional Service for the installation of three additional PPA Flash receivers. Recommended corrections, additions or deletions should be addressed to the Design Authority at the following address:

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1 INTRODUCTION

1.1 General

- .1 This Scope of Work is required to expand PPA Flash transmitter coverage in building 58 A Health Care Area and PPA flash transmitter coverage in the Corcan Building F114
- .2 Correctional Service Canada has a requirement to install three (3) additional Personal Protection Alarm receivers for the exiting Personal Protection Alarms (PPA) Flash system at Dorchester minimum Institution as follows.
 1. One PPA receiver must be installed in Dorchester Minimum Institution Health Care building F58A, room 160 above the drop ceiling;
 - i. This receiver will connect via new Power over Ethernet (PoE) Cat 6 cable to an existing ESS CCTV Network Switch in the basement of F58 room 015. Conduit requirement are to be determine during the mandatory site visit.
 - ii. Two (2) PPA receivers must be installed in Dorchester Minimum Institution Corcan building F114.
 - a. One PPA receiver for the Corcan building must be installed above the drop ceiling in the main entrance area room 102, F114.
 - b. A second PPA receiver must be installed in a contractor provided equipment rack in room 203 on the second floor Mezzanine area, F114. External antenna mounting is required.
 2. Both new PPA receivers in F114 will terminate via new PoE Cat 6 cable on the new contractor supplied network switch to be installed in Room 203, F114.
 3. The new network switch in Room 203, F114 will be connected to existing institutional spare fibre pairs in located LAN room 202A.
 - i. These (spare fibres) will in turn be patched from building F114 LAN room 203 to Building 58 room 015 via the spare institutional fiber network. The institutional fiber network shall be reviewed and verify during the site visit.
 - ii. The contractor must provide the necessary cabling/patch cords.

1.2 Scope

- .1 The contractor must:
 1. Supply, install and configure three (3) new PoE PPA Flash receivers to integrate into the existing PPA Flash system.
 2. Supply, configure, and test one (1) spare PoE PPA Flash receiver.
 3. Provide documentation and drawings to reflect the additional receivers.
 4. Provide fibre patch over cables as required connecting existing fibre from Buildings F114, F56 and F58. (All patch cables to have a green sheath)
 5. Provide network switches for the new PPA receivers as required for communication to the existing CECOM Bus installed in Building 58 first level room 015.
 6. Provide an equipment rack to be installed in F114 room 203. The rack must be lockable and of sufficient size to accommodate one PPA receiver, one 24 port network switch and a rack mounted UPS.
 7. Provide AC power from an existing power panel to the contractor supplied equipment rack.
 8. Provide maintenance training on the repair, replacement and configuration of the new receivers.

1.3 Requirement/Purpose

- .1 This Scope of Work provides prospective suppliers with sufficient information so that they can provide a quotation to PWGSC/CSC. This Scope of Work defines the scope of the system architecture, required to:
 1. Add three (3) additional PPA Flash receivers at Dorchester minimum Institution; and one (1) operational spare.
 2. Add one (1) lockable equipment rack, equipped with a 24 port network switch and UPS.
 3. Provide all conduits and wiring requirements to integrate the three (3) new PPA receivers and the network switch to the existing PPA system.

1.4 Background

- .1 Location:
 1. Dorchester Penitentiary is a medium and minimum security institution located at Dorchester, NB, E4K 2Y9.

1.5 Site Visits/Survey

- .1 The Design Authority, or their authorized representative, will coordinate a site visit, and identify the locations of the new PPA receiver and existing fibre infrastructure.
- .2 The visit may be useful to determine:
 1. The exact location and mounting of the PPA receivers,
 2. Mounting locations for the enclosures and network switches,
 3. AC/DC power availability and requirements
 4. Review of the existing PPA system architecture,
 5. Conduit and cabling requirements, and
 6. General layout and operating environment of the site.

1.6 Technical Acceptability

- .1 CSC operational environment is unique for its diversity of locations, climate exposures and the physical restrictive construction techniques of penal institutions. Maintaining national security, the safety of staff and offenders alike is CSC's commitment to the government and public. Electronic security systems operating in this unique environment must maintain very high standards of dependability and reliability.
- .2 CSC Facilities Branch has established Statements of Work (SOW), technical specifications and standards for electronic security systems, which are based on very specific, and restrictive operational performance criteria. Technical acceptability of these systems means that the systems equipment and components comply with the pertinent CSC SOWs, specifications and standards.

2 APPLICABLE DOCUMENTS

2.1 Applicability

- .1 The provisions contained in the documents listed in the following paragraphs will apply to all aspects of this requirement, unless these provisions have been exempted or modified by this STR.

Number	Title
ES/SOW-0101	Statement of Work for Installation of Electronic Systems
ES/SOW-0102	Statement of Work for Quality Control of Electronic Systems Installations
ES/SOW-0110	Statement of Work for Structured Cable Systems for Electronic Systems Installations
ES/SPEC-0006	Electronics Engineering Specification - Conduit, Space and Power Requirements for Security Systems for use in Federal Correctional Institutions
ES/STO-0003	Electronics Engineering Standard – Network Time Protocol Server for use in Federal Correctional Institutions
EIA-310-D	Electronic Industry Association Standard for Racks, Panels and Associated Equipment

