

Intrusion Detection and Alarm System Technical Requirements

1.0 System – General Technical Requirements and Constraints

1.1 The Intrusion Detection and Alarm System must meet the minimum requirements of the **Canadian General Standards Board – Standards (Alarm and Electronic Security Systems – Part 11-1)**

1.2 The Intrusion Detection and Alarm System requirement includes the following components:

- i. Control Panel**
- ii. Sensors**, including: Motion Detectors;
 - : Door and Window Contact; and
 - :Glass Break Sensors
- iii. Keypads**

1.3 The Intrusion Detection and Alarm System must:

- i.** Be Hardwired;
- ii.** Be a Supervised System
- iii.** Have Battery Back-up capable of supplying the system with uninterrupted power source for a minimum of twenty-four (24) hours;
- iv.** Include a GSM (Global System for Mobile Communications) transmitter;
- v.** Have arming capability for a minimum of three (3) partitions or zones;
- vi.** Have the capability to support at least thirty (30) hard-wired zones;
- vii.** Have the capability to support at least four (4) hard-wired keypads;
- viii.** Have the capability to support a minimum of fifty (50) Individual user access codes;
- ix.** Include the capability to program a Duress code.
- x.** Must include siren and strobe alerts;
- xi.** Must include a minimum of one (1) wireless Panic Key (FOB); and
- xii.** Must include a security application (app) allowing real-time remote access and management of all alarm activity including the ability to:
 - a)** Remotely Arm and Disarm the System;
 - b)** Create and De-activate Personalized User Codes; and
 - c)** Issue customizable text messages, push notifications and e-mail alerts

1.4 Equipment

1.4.1 Control Panel

The System Control Panel must:

- i.** Be Hardwired;
- ii.** Be expandable to a minimum of thirty (30) hardwired zones;
- iii.** Have a minimum capacity of three (3) partitions;
- iv.** Have a minimum capacity of fifty (50) User codes;
- v.** Have a five hundred (500) event Buffer;
- vi.** Have template programming; and
- vii.** Must connect a minimum of a minimum of four (4) supervised keypads with keypad zones.

1.4.2 Sensors

The Contractor must supply and install the following sensors: The location for the sensors is subject to approval by the Project Authority.

- i.** Six (6) Door Sensors for Overhead doors
- ii.** Nine (9) Man Door sensors (Door Pin or External-Mounted);
- iii.** Three (3) Motion Detection Sensors – Ceiling Mounted; and
- iv.** Six (6) Glass-Break Sensors.

1.4.3 Keypad(s)

The Contractor must supply and install a minimum of three (3) keypads for the Intrusion Alarm. The location for the keypads is subject to approval by the Project Authority.

1.4.3.1 The keypad(s) must:

- i. Be hard-wired to the control panel;
- ii. Have display screens meeting the description at **para 1.2.2; and**
- iii. Have programmable keys

1.4.3.2 The key pad display screen must:

- i. Include a LCD (Liquid Crystal Display) display screen that:
 - a) Is a full message size; and
 - b) Is illuminated (backlit).

1.4.4 Miscellaneous Equipment and Supplies

The Contractor must supply all materials required for the conduct of the work, including cables, wires, software and any auxiliary equipment.

1.5 Manuals

- i. The Contractor must provide all relevant **Operating Manuals** for the Intrusion Detection and Alarm System. The Manuals must be provided at minimum in electronic copy, and if available, hard copy. The Manuals must be provided in **English** and **French**.