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*Note to the Designer/Architect/Engineer: These Specifications are basic minimum criteria to be met in preparing the final project specifications for this section, which is the responsibility of the Designer*

York University Building Standards

**1.0 GENERAL**

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## 1.0 GENERAL

### 1.1 Scope of Work

- 1.1.1 This standard covers minimum requirements for Indoor Safety Telephones and Outdoor Emergency Telephones

### 1.2 Guideline Principles

- 1.2.1 Indoor safety phones – indoor safety phones shall be located on every floor and in every building on campus such that there is adequate access to this emergency communication equipment for the community.
- 1.2.2 Indoor safety phones are intended to provide the York University community access to emergency communication to Security Services Control Centre on a 24/7/365 basis
- 1.2.3 Outdoor Emergency telephones shall be located throughout the campus in such a manner as to provide unobstructed access
- 1.2.4 Outdoor Emergency telephones are intended to provide the York University community access to emergency communication to Security Services Control Centre on a 24/7/365 basis

### 1.3 Device Location

- 1.3.1 Placement of Indoor Safety Telephones shall follow these site selection principles:
  - .1 Safety phones shall be installed adjacent to, or near elevator lobbies
  - .2 Safety phones shall be installed in classrooms, and/or lecture halls with seating capacity of 75 or more
  - .3 Placement of Indoor Safety Telephones shall be established such that a clear and unobstructed line of sight is possible from a minimum of two vantage points within the building's floor
- 1.3.2 Placement of outdoor Emergency Telephones shall follow these principles:
  - .1 Outdoor Emergency telephones shall be located in outdoor areas with high pedestrian traffic flow
  - .2 Outdoor Emergency Telephones shall also be located in outdoor areas that are remote and isolated from the campus core
  - .3 Outdoor Emergency telephones shall be installed so that a clear unobstructed line of sight is possible from as far as possible from the installation

## 1.4 Related York University Standards

- 1.4.1 Telecom Standard, UIT, York University
- 1.4.2 Interior Signage Standard Manual (2004), CSBO

## 1.5 References

- 1.5.1 AODA
- 1.5.2 UL/CSA-C22.2 No. 60950-1-07 Information Technology Equipment – Safety – Part 1: General Requirements

## 1.6 Device Features

- 1.6.1 Outdoor Emergency telephones shall have the following minimum features
  - .1 Shall incorporate a speakerphone
  - .2 Employ programmable memory such that programming is retained in the event of power loss
  - .3 Shall be built to be vandal resistant with tamper proof screws, and a stainless steel faceplate
  - .4 Shall employ weather resistant construction
  - .5 Shall incorporate auxiliary power supply with battery back up for dial tone
  - .6 Shall include a dual button capability
  - .7 Primary button shall be labeled “ Push for Help” and programmed to connect directly via a dedicated telephone land-line to York University Security Control Centre
  - .8 Secondary button shall be labeled “goSAFE” and will connect the caller via a dedicated telephone land line with the on campus telephone extension for this agency
  - .9 Include visible LED call indicators for the primary and secondary call buttons
  - .10 Can be wall mounted or tall pedestal mounted depending on circumstances
  - .11 Shall incorporate sealed solid-state piezoelectric button for both primary and secondary call buttons
  - .12 Shall incorporate an LED strobe light with UV resistant blue lens to be mounted on the top of the device (wall mounted and/or pedestal mounted speakerphones)
  - .13 Shall include a telephone line surge suppressor
  - .14 Shall be constructed of 12-gauge stainless steel painted in industry standard “Safety Yellow”
  - .15 Shall include a 24V AC power to 110V DC weather resistant transformer, or be configured to 110V DC power
  - .16 Shall include analog telephone line connectivity
  - .17 A sign constructed of high quality outdoor grade black colour vinyl having the wording ‘Emergency’ shall be affixed to the device’s housing

1.6.2 Indoor Safety  
Telephone

- .1 Shall incorporate a speakerphone
- .2 Employ programmable memory such that programming is retained in the event of power loss
- .3 Shall be built to be vandal resistant with tamper proof screws, and a stainless steel faceplate
- .4 Shall be telephone line powered
- .5 Depending on campus location, the option to have a secondary sealed solid-state piezoelectric button for both primary and secondary call buttons
- .6 Primary button shall be labeled " Push for Help" and programmed to connect directly via a dedicated telephone land-line to York University Security Control Centre
- .7 Secondary button shall be labeled "goSAFE" and will connect the caller via a dedicated telephone land line with the on campus telephone extension for this agency
- .8 Telephone shall be remotely programmable
- .9 Shall include IP telephone line connectivity
- .10 Shall contain capacitor integrated circuit design
- .11 Shall disconnect on busy signal, return of dial tone, programmable timer, CPC or repetitive tones
- .12 Shall contain a protective perforated metal screen between speaker and housing
- .13 Cable entry for device must be behind (flush box)

1.6.3 Indoor Safety phones in classrooms, lecture halls

- .1 Shall be telephone line powered
- .2 Shall employ a single telephone line having a minimum of two (2) programmed on camp extensions
- .3 Primary button shall be labeled "Security Services" and be programmed to connect directly to York University Security Control Centre
- .4 Secondary button shall be labeled "UIT" and be programmed to connect directly to York University, University Infrastructure Technology (UIT)

## 1.7 Warranty (Standard Warranty and Extended Warranty)

- 1.7.1 Provide a two-year warranty on all electronic components and a five-year warranty on wall mounted and pedestal mounted housings. A one-year installation warranty from date of system acceptance in writing from York University.

## 1.8 Submittals

- 1.8.1 Shop equipment cut sheets indicating the complete system design, and all

components shall be submitted as a package for approval prior to release of order or installation. As a minimum the shop drawings shall include a floor plan of the installation area, a wiring diagram indicating all components connected and the number type and size of the conductors between each component. Cut sheets of each piece of equipment shall be included in the shop drawing submittal package.

- 1.8.2 Three hard copies and one set of electronic files of the "as built" record drawings shall be provided to the University upon completion of the work. The drawings shall reflect the final

"as built" arrangement and configuration of the system. They shall be accompanied by illustrated technical supporting literature on all equipment comprising the installation including operating and maintenance instructions for all components.

- 1.8.3 As built drawings and wiring diagrams shall be produced by AutoCAD version 2010 (earlier version such 2008, 2009 are also acceptable) and supplied to York University's Planning & Architecture Design Services, Campus Services and Business Operations on disk.

## **1.9 Qualifications (P.Q.):**

- 1.9.1 The installer of electronic hardware must be a firm with at least 5 years experience with these types of products, have manufacturers' references and a good knowledge of the products specified.
- 1.9.2 The installer of electronic hardware must hold a building contractor's license issued by the provincial authorities having jurisdiction, and must select a qualified labour force of established competence.

## **2.0 PRODUCTS**

### **2.1 Acceptable Products:**

#### 2.1.1 Interior Safety Telephones:

- .1 Code Blue Interact 500-d series speaker phones
- .2 Talk A Phone Analog 500 Series

#### 2.2.2 Outdoors Emergency Telephones

##### .1 Tall Pedestal style:

- .1 Code Blue tall pedestal emergency telephone unit # CB-5s
- .2 Talk A Phone tall pedestal model unit # ETP-MT Emergency

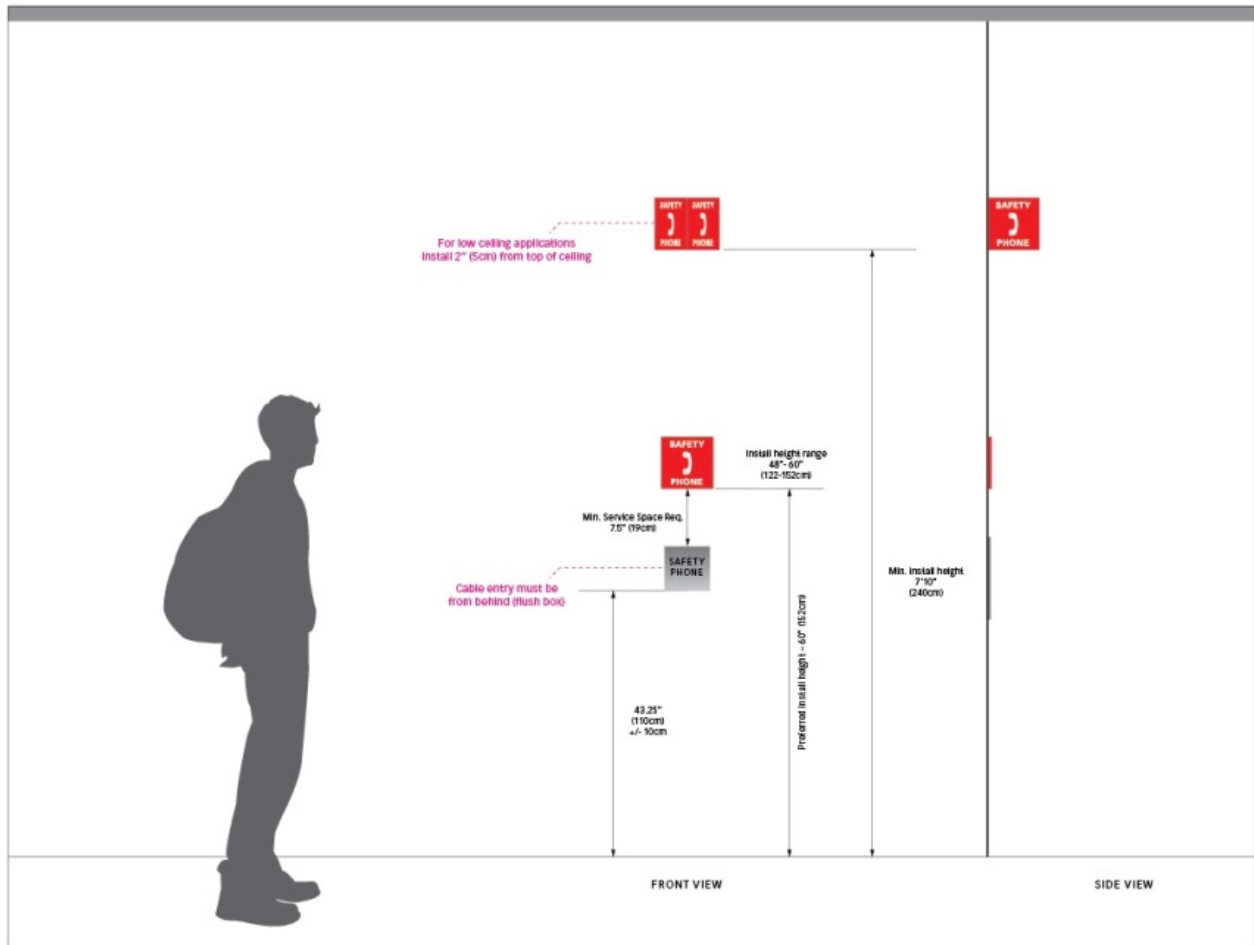
- .2 Wall Mounted style:
  - .1 Code Blue wall mounted emergency telephone model CB 2E
  - .2 Talk A Phone WEBS-WM – Wall Mount Emergency Phone Station with WEBS

## 3.0 EXECUTION

### 3.1 Minimum requirements for installations:

- 3.1.1 Mounting brackets and deck-mounting kits shall be provided for devices (indoor and outdoor types)
- 3.1.2 Outdoor tall pedestal installations shall be mounted using required mounting kits and brackets onto minimum of 1.22 metre concrete base by 305 mm diameter
- 3.1.3 Placement of indoor and outdoor emergency telephones shall address the limited reach of persons in a seated position (wheelchair accessible)
- 3.1.4 Outdoor emergency telephones shall have a clear flat floor space (to be at grade with sidewalk) directly in front of the telephone that is at least 810 mm wide and 1370 mm deep, with the telephone tall pedestal mounted on the long dimension in the centre. Placement of the tall pedestal or wall-mounted telephone shall be such that there can be front approach or side approach for persons in a wheelchair, scooter or other mobility device
- 3.1.5 Interior and outdoor emergency phones (speakerphone unit) mounting height shall be no more than 110 cm from the floor (plus or minus 10 cm) measured to the bottom of the phone case.
- 3.1.6 Emergency outdoor telephones shall be installed with two bollards to protect the tall pedestal and users. Bollards will be a minimum of 940 mm high by 114 mm in diameter and shall be painted safety yellow
- 3.1.7 The height of the operable portions (the speaker and activation buttons) of a wall mounted or a tall pedestal mounted exterior emergency telephone shall be not greater than 1170 mm from the floor
- 3.1.8 Height of the operable portions (the speaker and activation buttons) of indoor emergency telephone shall be not greater than 1170 mm from the floor
- 3.1.9 the wall above the device hardware must be unobstructed for at least 19 cm to allow for service clearance
- 3.1.10 Device installation must include dedicated emergency telephone York University signage (please refer to York University Signage Standard)
- 3.1.11 Wiring requirements CAT 6

- 3.1.12 For outdoor emergency telephone installation wire shall be encased in 19.05 mm (3/4") conduit for electrical wire, and 19.05mm (3/4") for telecommunication wire
- 3.1.13 There are two options available that should be determined prior to installation of the phone:
  - Option 1 Cable entry may be from behind the flush box
  - Option 2 Cable entry may be fed from below
- 3.1.14 The wall above the phone must be unobstructed for 19cm to allow for service clearance.
- 3.1.15 Emergency Phones must be accompanied by two types of signage;
  - a) a flat wall sign above the phone at a height between 122cm and 152 cm.
  - b) A "V" shaped sign above the phone at a minimum height of 240cm. For low ceiling install 5cm below ceiling.



*This image represents installation with exposed external conduit for communication cables.*

### 3.2 Coordination

- 3.2.1 Installation shall be coordinated with University Technology Services, University Information Technology (UIT) as well as the Electrical Contractor, and York University's Security Services
- 3.2.2 Line cable will be installed by York University, UIT, or their designated VOR unless agreed to be installed by contractor. Line service horizontal cable terminate in the nearest UIT Communication room. Connection of service will be executed by York University, UIT.

### 3.3 System Testing Verification and Adjustments

- .1 System testing and verification shall be coordinated through University Information Technology (UIT), Security Services, Campus Services and Business Operations (CSBO)
- .2 Testing shall ensure and validate connectivity of each device to Security Control
- .3 Testing shall ensure and validate that each device is appropriately identified by its campus location at the Security Control Centre such that when activated Security Services staff can be informed of the exact location of the emergency call
- .4 System testing must ensure adequate volume control for each device ensuring clarity of communication

**End of Section**