
PART 1 - GENERAL**1.1 RELATED SECTIONS**

- .1 Section 26 05 00 - Common Work Results - Electrical.

1.2 REFERENCES

- .1 CSA C22.1-15, Canadian Electrical Code.
- .2 Government of Canada.
 - .1 TB OSH Chapter 3-03, 1997-01-28, Treasury Board of Canada, Occupational Safety and Health, Chapter 3-03, Standard for Fire protection Electronic Data Processing Equipment.
 - .2 TB OSH Chapter 3-04, 1994-12-22, Treasury Board of Canada, Occupational Safety and Health, Chapter 3-04, Standard for Fire Alarm Systems.
- .3 Underwriter's Laboratories of Canada (ULC).
 - .1 CAN/ULC-S524-06, Installation of Fire Alarm Systems.
 - .2 ULC-S525-07, Audible Signal Devices for Fire Alarm Systems, including Accessories.
 - .3 CAN/ULC-S527-99, Control Units for Alarm Systems.
 - .4 CAN/ULC-S528-05, Manual Stations for Alarm Systems, including Accessories.
 - .5 CAN/ULC-S531-02, Smoke Alarms.
 - .6 CAN/ULC-S536-04, Inspection and Testing of Fire Alarm Systems.
 - .7 CAN/ULC-S537-04, Verification of Fire Alarm Systems.

1.3 DESCRIPTION OF PROJECT

- .1 This specification is intended to describe the work to be carried out under the project.
- .2 Temporarily move the equipment indicated on the drawing. Intercept in the outlet box, add a terminal block and extend to the temporary location.
- .3 Retain the services of the fire alarm specialist under contract at the time of the work. Request the contact information of the specialist to the Departmental Representative.

FIRE ALARM SYSTEMS

1.4 DESCRIPTION OF SYSTEM

- .1 The existing system is Simplex, model 4100U.

1.5 CLOSEOUT SUBMITTALS

- .1 Upon completion of verification of the moved fire alarm equipment, submit a copy of verification certificate and report to the Departmental Representative.
- .2 The moved fire alarm equipment shall be subject to an inspection and test performed by the installer and witnessed by Departmental Representative for final acceptance. The electrical contractor must be available at time of testing by Departmental Representative.

PART 2 - PRODUCTS

- .1 Not Used.

PART 3 - EXECUTION**3.1 INSTALLATION**

- .1 Install the equipment as per the fire alarm system manufacturer's written instructions.
- .2 Locate and install audible signal devices and connect to signalling circuits.
- .3 Connect signalling circuits to main control panel.
- .4 Install end-of-line devices at end of signalling circuits.
- .5 Wiring for initiating device circuits and signalling line circuits shall be #16 gauge minimum. Wiring used for the multiplex communication loop shall be twisted and shielded.
- .6 Wiring for signals shall be minimum #14 gauge, THHN, 600 V, solid copper. Signal circuit conductors shall be red and black in colour.
- .7 All fire alarm system wiring shall be contained in conduit.
- .8 All fire alarm conductors shall be free of splices and t-taps and shall be installed continuous between devices.

3.2 FIELD QUALITY CONTROL

- .1 Perform tests in accordance with Section 26 05 00 - Common Work Results - Electrical and CAN/ULC-S537.
- .2 Fire Alarm System:
 - .1 Test each device and alarm circuit to ensure manual stations, thermal and smoke detectors, flow switch transmit alarm to control panel and actuate presignals and general alarms.
 - .2 Simulate grounds and breaks on alarm and signalling circuits to ensure proper operation of system.

END OF SECTION