1. GENERAL

1.01 SECTION INCLUDES

.1 ULC monitoring equipment for fire alarm systems.

1.02 RELATED REQUIREMENTS

.1 Section 28 46 13 – Fire-Alarm Systems.

1.03 REFERENCES

.1 CAN/ULC-S559:2020, Standard for Equipment for Fire Signal Receiving Centres and Systems.

.2 CAN/ULC-S561:2020, Installation and Services for Fire Signal Receiving Centres and Systems.

1.04 COORDINATION

.1 Coordinate if the Owner has identified a ULC monitoring company to be used.

.2 Coordinate the specific installation requirements of the monitoring panel supplier with the fire alarm system supplier.

1.05 SUBMITTALS

.1 In accordance with Section 01 33 00, and Section 28 46 13.

1.06 CLOSEOUT SUBMITTALS

.1 ULC "Fire Protective Signaling Certificate" certificate indicating the monitoring company is in compliance with CAN/ULC-S561.

1.07 DELIVERY, STORAGE, AND HANDLING

.1 In accordance with Section 01 61 00.

2. PRODUCTS

2.01 ULC FIRE ALARM MONITORING PROVIDER

.1 Provide ULC monitoring transmitter and connect to a monitoring station listed to CAN/ULC-S561.

2.02 MANUFACTURERS

.1 Johnson Controls / Tyco | DSC.

.2 Substitutions: equal product from other manufacturers acceptable to the manufacturer of the fire alarm system, and the authority having jurisdiction.

2.03 TRANSMITTER PANEL

.1 The Fire alarm system shall be provided with a fire alarm monitoring panel that meets ULC-S559 and ULC-S561 requirements. DSC Fire Alarm Monitoring System or approved equivalent.

.2 The monitoring system shall support active communication or passive cell/IP communication.

.3 Monitoring panel shall be certified for active or passive ULC monitoring and operate on the local cellular LTE networks.

.4 Monitoring Panel shall have an LCD back lit display keypad with AC status indicator. Provide battery back-up for the monitoring panel and energize from a dedicated branch circuit. Provide a red lock-on device for the breaker.

.5 Monitoring shall be provided in a passive configuration to meet ULC-S561 requirements. System shall have a dedicated primary telephone line and shall not be shared with any other system in the facility. Provide Category 6 voice and data cabling in EMT conduit to the telephone demark in [the telecommunications entrance facility]. Fire alarm system supplier shall be responsible to include a complete system with monitoring for two (2) years after substantial performance.

.6 As part of the fire alarm system shop drawing submission provide information on the monitoring company and confirmation that the monitoring company meets ULC-S561 requirements.

.7 The Monitoring System shall include cellular booster complete with lightning surge protector. Wilson Pro1050 or approved equivalent.

.8 The Contractor is responsible for all wiring from the fire alarm panel to the monitoring panel and from the monitoring panel to the [telecommunications entrance facility]. Cabling shall be as per manufacturer's requirements. All cabling shall be run in conduit.

3. EXECUTION

3.01 INSTALLATION

.1 Locate monitoring transmitter [adjacent to fire alarm control panel] [at communications entrance facility] [at CACF room].

.2 Provide one dedicated 15 A, 120 VAC circuit for monitoring transmitter.

.3 Provide a junction box at the monitoring transmitter location with the fire alarm zone outputs from the Fire Alarm System to the monitoring transmitter.

.4 Connect fire alarm system outputs to ULC monitoring transmitter.

.5 Provide [one voice line and] one data outlet to the ULC monitoring transmitter.

.6 Post a copy of the ULC certificate at the location of the transmitter.

End of Section