

DIVISION 28 - ELECTRONIC SAFETY AND SECURITY

28 1300 ACCESS CONTROL SYSTEM

- A. The University of North Dakota shall use hardware and software compatible with and/or supplied by Honeywell Inc.
- B. Electronic Door Access (EDA) Systems:
 - 1. EDA systems require Owner approval and should be compatible with our current access system.
 - 2. EDA shall be on a server managed by and maintained by the university.
 - 3. Licenses for each physical and virtual electronic door shall be purchased as part of the project.
 - 4. Remote door controllers shall be multi-configurable PCSC IQ series controllers as required by Honeywell.
- C. Implement building lockdown capabilities via card access system (either hardwired or wireless).
- D. Electric strikes shall have a minimum 5-year warranty similar to the HES and Folger-Adams brands.
- E. Exit devices shall be of the Von Duprin 99 series.
- F. Electrified exit devices shall be the Quiet Electric (QEL) option or the M996L locking trim. When the QEL latch is electrically retracted, the door is neither secure nor latched. When the M996L trim is electrically unlocked, the door is not secure, but remains latched.
- G. Maglocks shall not be used except in rare instances.
- H. Off-the-shelf HID card readers and credentials (peripherals) are preferred. Keyscan Prox3 readers are a suitable equivalent.
- I. Request-to-exit motion sensors shall be the Bosch model, DS150i (white) or DS151i (black).
- J. The request-to-exit function may be an integral switch in the Von Duprin exit device or in the lever trim set.

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- K. Door position switches shall be of the George Risk Industries 180 or 184 series (3/4" or 1"); or the 3/8-inch RS20-12 short press fit series.
- L. Power supplies shall have a life-time warranty similar to the Altronix brand and shall be co-located with electronic card access controllers in secure rooms.
- M. An IDEC programmable relay (FL1F-H12RCA) shall be used to sequence automatic door operation for ADA accessibility.
- N. Powered door operators shall use no-touch actuators. The SDC 474U model is preferred.
- O. Back-up power (generator and UPS) needs to be considered for card access controllers.
- P. System Cable Description:
 - 1. Composite plenum-rated cable suitable for installation in conduit and cable trays, similar to Carol 4EPL4S
 - 2. Lock control: #18/4 shielded
 - 3. Reader: #22/6 shielded
 - 4. Door position switch: #22/2 shielded
 - 5. Request-to-exit: #22/4 shielded

28 1600 INTRUSION DETECTION

- A. Intrusion detection shall be integrated into the Access Control System to the widest extent possible and thereby monitored by the Building Automation System.
- B. Where the Access Control System is not used, the Intrusion Detection System shall use components that use Form C contacts that can be monitored by the building automation system.
- C. Hardwired devices are preferred to wireless devices.

28 2300 VIDEO SURVEILLANCE

- A. Video surveillance shall meet the requirements of the UND Police Department policy (available on line).

- B. Video surveillance equipment shall meet the requirements of the ONVIF (**Open Network Video Interface Forum**).
- C. Video recording for IP cameras shall be on a server managed and maintained by the university.
- D. The video license for each camera shall be purchased as part of the project.
- E. The design professional shall indicate camera and equipment locations on construction documents.
- F. As a minimum, the video surveillance will cover the entrances and exits for the facility, any long corridors, point-of-sale locations, any area identified as a high security zone (i.e., vault, cash room, secure file room, etc.)

28 2600 ELECTRONIC PERSONNEL PROTECTION SYSTEMS

- A. Duress (panic) alarms shall be monitored by the building automation system.
- B. Hardwired devices without indicator lamps are preferred.

28 3100 FIRE DETECTION AND ALARM

- A. Use either Gamewell-FCI or Johnson Control Fire Protection (Simplex) fire alarm control panels.
- B. Locate the fire alarm control panel in or near a primary entrance with ease of access for first responders, or use a remote annunciator panel with a microphone at this or multiple responder entrances.
- C. Notification appliances shall be speaker-visual devices.
- D. Use red colored conduit for quick identification of the fire alarm system raceway. The raceway may be painted to match walls in public areas.
- E. The fire alarm system shall be monitored at the UND Operations Center via the building automation system.
- F. The fire sprinkler system shall be interconnected with the fire alarm system for alarm and notification.
- G. The fume hood extinguishing system shall be interconnected with the fire alarm system for alarm and notification.

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- H. The building shall have an addressable fire alarm and notification system throughout the facility. The system shall provide primary notification of any smoke or fire event directly to the building occupants.
- I. Programming of the fire alarm system shall allow for bypass functions as requested by the user.
- J. Programming of the fire alarm system shall allow for a Positive Alarm Sequence when requested by the user.
- K. Each duct detector and beam detector shall have a test-switch-indicator assembly mounted for easy access for testing and status.