

## **ELECTRONIC DOOR ACCESS CONTROL SYSTEM - UNL**

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**Application Requirements:** UNL has an extensive door access control system. The scope of electronic door access requirements are dictated by the type of project.

**Coordination of Design:** The FMP Access Control Engineer will complete the actual design of the access control system, including the selection of all components of the system. However, the design A/E shall coordinate design of the electronic door access control system with the FMP Project Manager and Access Control Engineer once project floor plans have been developed. This design coordination shall include: finish door hardware, details of door and frame factory preparation and installations. Refer to *HVAC Control, Access Control and Lighting Control Coordination Schedule* section within these Design Guidelines for a delineation of the responsibilities for procurement and installation of access control system components.

**Door Operating Force:** To ensure that the required exit doors will be able to be opened readily in the manual mode of operation, the closing mechanism of the electronic door access device shall be adjusted in accordance with the *Codes, Standards and Regulations* section of these design guidelines.

For delayed egress door hardware, special signage shall also be provided on the egress side of such doors. The sign shall be readily visible and use lettering of at least 1 inch height on a contrasting background to convey the following message: "IN EMERGENCY, PUSH TO OPEN or "EMERGENCY EXIT ONLY"

**Large Capital Construction Projects:** Provide the following categories of electronic door access in new building projects, major renovations and building additions:

- Exterior swing doors and large opening closures, such as rolling shutters or overhead panel doors
- Interior swing doors and large opening closures designated as security sensitive by users, by UNL administrative or Facilities Management and Planning policy. Such spaces include: mechanical equipment rooms, telecommunications wiring closets, electrical closets and custodial rooms.
- At least one entrance door that is also automated and accessible per ADA requirements. The electronic door access control system and the ADA door automation systems shall be interfaced.

**Small Capital Construction Projects:** For small capital construction projects of limited scope,

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This narrative pertains to University of Nebraska – Lincoln City and East campuses only.

These requirements should be designed and specified for the openings separating the building corridor system from a suite of rooms and any other designated openings, which may become security-sensitive.

***Finish Hardware Overview:*** Locking systems for access-controlled openings may include:

- Rim-type panic exit devices
- Mortise or cylindrical locksets with electric operation
- Standard mortise or cylindrical locksets with an electric strike
- Delayed egress panic exit devices (Von Duprin or Sargent) or electromagnetic locks.

Because certain types of electrified door hardware introduce inherent installation obstacles, are not generally as robust, have a higher failure rate or pose other functional or operational issues, we discourage the use of electromagnetic locks, electrified cylindrical locks and electric strikes. Instead, we encourage the use of electrified wide stile rim-type exit devices and mortise-type electrified locks because they are the most reliable door hardware types that can be scheduled and generally work best for our specific installations.

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or if in inaccessible area, in conduit to nearest access control support panel location. (Coordinate with FMP Access Engineer).

- All systems shall be commissioned by the UNL BSM unless the FMP Access Engineer has stipulated that entire installation and commissioning are to be completely installed and performed by the Contractor.