

APPENDIX F

KEY AND CARD ACCESS

1. New Construction

- A. System is to be installed by certified Continental Controls installing contractor (they must be able to acquire help and technical assistance from Continental Controls and have techs trained in installing Continental systems).
- B. ALL exterior entry / exit doors have a card access system. If doors are double, each leaf shall have electrified latching ability. (Wire size for door control on Electric Latch Retraction systems shall be 12 to 14 gauge as per Von Duprin specs) Doors that are egress only and have no exterior hardware are not required to have access controls.
- C. Card access system must be the following manufacturers and specifications:
- **Controllers:** MFC = Continental Access Control with UL294, UL1950/EN60950, UL1076, compliances. Controller shall be Turbo 8 (8 doors) or Turbo 4 (4 doors) capable of defining six (6) access groups per badge.
 - **Card Readers:** MFC = HID 125kHz Mini Prox (M# 5365EKP00- Black) Readers or ThinLine II (M# 5395CK100 – Black) Readers.
 - **Protocol:** (10022)
 - **Cards:** Card type, facility code, and number sequence to be provided by the City of Fort Collins per project.
 - **Power:** Provide minimum of 4 hrs battery backup per reader/controller and separate battery backup & circuit for door strikes or latches. On doors with long “Free Access” periods, UPS power may be required.
 - **Communication:** to be done using Lantronix serial server field devices tied into the City’s network and communicating with central CA3000 software located at Operations Services facility.
- D. Options for local building tenant control via timer on on/off switch of Secure/Free Access mode for doors shall be defined in final scope of project.
- E. Use of REX (request to exit sensors) and door position contacts for doors to be determined at time of building design and building intent as reviewed by Access Control Administrator.

- F. Exterior doors with card access or electronic locking shall use Von Duprin 98/99 series push pad exit devices with electronic latch retraction (designed for use on flush and wide stile doors, and fit 86 and 161 stock hollow metal cutouts). Set up to normally fail secure. (Insure proper wire size is used, 12-16 ga).
- G. All doors off the common areas entering multiple work areas are access controlled. (IE department barriers, specific work group defined areas)
- H. All doors for MIS (Management Information Systems) hardware (IE telephone, network switch gear) shall have access control on them.
- I. Interior doors within the work area or single offices are keyed with the standard Schlage primus system (levels/schedules determined by Building occupants and Project Manager).
- J. Maintenance rooms are keyed uniquely with the Schlage primus system.
- K. The City of Fort Collins sole source Primus Key Contractor is to be used by the GC to provide primus cylinders and keying in the project. The GC is required to and will be responsible for supplying and installing all primus keying. All primus key scheduling, development, and cylinders purchasing shall subcontracted to Colorado Doorways, 3333 E 52nd Ave, Denver, Co. 303-291-1002

2. Renovation / Alterations of Existing Building

- A. Replace major buildings with exterior doors with Primus[®] key system and interior doors following the standards outlined above.
- B. Any Card access system retrofit will follow New Construction standards from 1st section of this Appendix F.