CARD ACCESS CONTROL SYSTEM:

Scope
1. The Card Access Control System reader device shall be located at the main entrance of each building and shall include, but shall not be limited to the following:
2. Computer (CPU, flat panel monitor, mouse, keyboard, etc.), card readers, battery backup, data converters, power supplies, badge printing system to print cards for use by staff and faculty members, all hardware and software required for a complete and ready to operate system.
3. The system shall be a large networked system for multiple school buildings with the capacity to track when card users come and go.
4. The card access control system shall connect to the existing monitored alarm systems and CCTV systems in each school and provide authorized individuals safe and secure access in and out of the building(s) for which their cards are programmed.
5. In addition to each intelligent field panel controller provided in each school, provide one intelligent field panel controller to the security department at 801 north 11th Street. The security department will be the only authority to generate ID cards for all users. That intelligent field panel controller must be able to communicate with all systems for all the schools to allow proper programming of all cards to be generated from one location.
6. It should also provide LAN connection from designated IFP panels to the property for remote monitoring of the access control system.
7. The system shall provide programming of the ACS system software for the door and the interlock functions and provide for integration between the ACS and the fire alarm system.
8. The system shall, upon receipt of fire alarm signals, drop out all locking devices with the alarm zone.

Design Criteria
A. The acceptable manufacturers are:
   1. Continental ACS panel equipment
   2. Mercury Card Readers
   3. Sentrol door contacts
   4. Hoffmann enclosures
   5. Essex Request to Exit pushbuttons
   6. Securitron magnetic locks
   7. Securitron sirens
   8. Securitron passive infrared sensor
   9. Securitron electronic exit delay systems
   10. Altronix power supplies
   11. West Penn or Belden cable

B. Components of the access control system
   a. Card Reader
   b. Power Supplies (for ACS active components and any ACS field device powering)
      i. Wall mounted, rugged housing with lockable door
      ii. 120vac input, filtered 12 or 24vdc outputs rated at 2amps minimum
      iii. Separate fused output per door, if more than 1 door
      iv. Battery backup to be provided within housing
      v. Units shall be designed for access control system applications
   c. Intelligent field panel controller
   d. Man Door Balanced Magnetic Switch
   e. Exit Motion Sensor
   f. Electric locks
   g. Magnetic locks
i. 1200 lb. holding force  
ii. 24V DC  
iii. Fully sealed electronics, tamperproof  
iv. UL listed  
v. Securion  
h. Delayed Egress Delay Exit System  
i. Controls for combination ADA operator/ACS controlled doors  
j. Door Interface box  
k. Cable and Conductors  

C. Credential ID cards and Printer  
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