SECTION 28 10 00 - ELECTRONIC ACCESS CONTROL AND INTRUSION DETECTION

CLOSED CIRCUIT TELEVISION

The University Campus Video Network uses the University Communication System duct-bank, telephone conduits, and telephone closets for distribution.

The Designer must determine and clearly show where video cable outlets are necessary.

Video cables shall be run separately from electrical power system raceways.

COMPUTER

The University Campus Computer Network uses the University Communication System duct-bank, but separate building served as specified in the project program Computer System conduits and closets for distribution. Provide Computer Closets on each floor of the Project.

The Designer must determine and clearly show where computer system outlets are necessary.

Separation: Separate power wiring raceways away from communication raceways by one foot (12") minimum to avoid noise to computer work stations caused by EMI.

CENTRAL CLOCK SYSTEM

The University does not have a central clock system. Due to high maintenance costs, building clock systems are discouraged.

SECURITY, BURGLER AND CARD ACCESS SYSTEMS

The system installation shall be in accordance with, but not limited to the Specifications stated herein and requirements of the current National Electrical Code (NFPA 70).

The University shall be notified in writing of any conflicts between applicable codes and University requirements.

If the Security contractor desires to use an installation method or practice, which is contrary to the Specifications, prior written approval shall be obtained from the University before such installation commences.

Electric Permits: All contractors are required to obtain electrical permits from the City of Mobile. Absolutely no work may begin without first obtaining the proper permits.

Equipment boxes, cabinets, card readers, and devices shall be mounted firmly in place utilizing fasteners, which provide the required safety and support. The Security contractor shall ensure that all equipment and devices are installed and mounted plumb.

All installations and modifications shall be neat and workmanlike.

All wire and cable supplied for installation by the Security contractor shall comply with all applicable codes, regulations, and the specifications stated herein. Wire gage size must be sized per the manufacturers Recommendation.

Wiring and cabling in cabinets, terminal boxes and equipment racks shall be property strapped down and supported. Wiring and cable installations shall be performed in a professional manner with good engineering practices and shall be to the standards specified in the current National Electrical Code (NFPA 70).

All wire and cable terminations to equipment, devices, junction boxes, and cabinets shall be made through screw type terminal blocks/strips or connectors.
Wire and cable supplied and installed shall be suitable for the application.

All conductors, cables and related wiring shall be approved purpose.

Cables used for security/ burglar/card access systems shall not be "tie wrapped" to electrical conduits. Note: sleeving in an approved raceway is required as determined by the methodology of the area.

Low voltage cable must be properly supported from the building structure. It is unacceptable to simply lay it across a lay in ceiling.

All System cabinets shall be locked and shall be equipped with a monitored tamper switch.

Terminal strips shall be clearly & uniquely identified in each cabinet.

Open air splicing is not permitted.

The CPU shall continuously perform internal and peripheral device diagnostics to ensure proper and secure operation of the system.

Control panels shall be the state of the art type and/or approved by the University. Location for control panels shall be in an area remote from entrance door so not to obstruct access or aesthetically displease.

Keypad controls, (LCD type) shall be located adjacent to the entrance of the secured area.

Motion detectors shall be of the dual technology type (passive infrared and microwave).

All systems shall be electrically grounded.

The System shall be tolerant of power spikes, transients and failures. When the power restores, after a failure, the System shall automatically come online without operator intervention, or execution of manual restart procedure.

The system shall be provided with the capability of retrieving historical audit trail data from the audit trail file or from previous audit trail records including date, time and zone for Alarm events.

System shall detect any alarm condition within one (1) second.

All power supplies for control panels shall be fed from the nearest electrical source with a separate receptacle installed near the control panel.

The power supply shall be equipped with battery back-up to provide 4 hours of standby power.

The batteries supplied shall be of the rechargeable type, with a minimum life expectancy of 5 to 8 years.

Battery backup shall be installed with a minimum of 6.5 amp hours. Date of installation shall be identified on all batteries.

Acceptance Testing: The Security contractor shall demonstrate the operation of all systems, including all peripheral devices, to the University.