PART I - GENERAL

1.1 RELATED DOCUMENTS
A. Drawing 26 56 00-4 – Campus Lighting Control Schematic

PART 2 - PRODUCTS

2.1 EXTERIOR LIGHTING
A. Exterior lighting shall be controlled by the Campus Central Lighting control that is transmitted via the Signal Cable. Refer to Drawing 26 56 00-4 – Campus Lighting Control Schematic. Lighting control shall be located in the building transformer room.

B. If the campus signal cable is not available, the method of control shall be a photocell with an adjustable on-off setting mounted on the roof of the building and a manual override test switch located in the building transformer room. The unit shall be mounted on 2-inch aluminum tubular stand, or other suitable manner, oriented to the north sky per manufacturer's specification. Provide the following in the transformer room:
   1. Toggle switch in pull box, wired in parallel with the photo-electric control on roof for testing.
   2. A street lighting contactor, 2-pole, with 120-volt, 60-cycle coil, actuated by the photo-electric control on roof. Size of the contactor shall be governed by the number of campus lighting fixtures controlled.

2.2 INTERIOR LIGHTING
[Note to AE: Lighting control systems present frequent problems due to inadequate detail included in bid documents. AE shall carefully specify all components for a complete and accurate bid contract.]
A. The goal shall be to reduce total life-cycle cost of the complete lighting system. The simplest control system shall be used which meets the project design requirements.

B. Pay special attention to ensure compatibility of control voltages, ballasts, and control interface with other systems such as HVAC controls, daylighting sensors, window shades, etc. If a building-wide master lighting control system is used, it shall output lighting energy usage information to the Building Automation System (BAS).

C. Documentation and user training are critical to successful use of lighting control systems. Include in bid documents the requirement for complete manufacturer as-built documents, O&M manuals, and a minimum of 8 hours training for building users and F&S maintenance personnel.

2.3 OCCUPANCY SENSORS
A. Occupancy sensors (auto on/off) and vacancy sensors (manual-on, auto-off) shall be used where appropriate.
   1. Sensors shall be dual-technology type unless specifically contradicted for the application.
   2. Sensors for lighting loads shall also include a spare relay contact for connection to HVAC system. [Note to A/E: Sensors integrated with HVAC controls shall be shown on both the Electrical and Temperature Controls drawings.]
   3. Sensors subject to abuse (such as wall switch type) shall have tamper resistant housing.
   4. Areas with automatic lighting controls shall always have manual override wall switches.

PART 3 - EXECUTION

3.1

END OF SECTION 26 09 23

This section of the U of I Facilities Standards establishes minimum requirements only. It should not be used as a complete specification.