

## CASE STUDY

Mission Critical/Power Quality

### IP-Based Video Surveillance System for Madison Middle School

Nashville, TN



To enhance security measures at Madison Middle School, Puckett Engineering designed an IP-based video surveillance system that included 32 IP video cameras at various locations inside and outside of the building. The IP-based system offered several advantages over an analog system, including web accessibility and digital recording.

The cameras and lenses were specified and positioned to offer views of the intended areas. Camera positions were coordinated with the principal and security resource officer.

The video surveillance system also included a Network Video Recorder (NVR), data cabling between cameras and the nearest intermediate distribution frame (IDF), lightning/surge protection, and power circuits. Since the cameras were added to an existing building, the installation was designed to maintain the building's aesthetics by concealing cabling where possible, painting conduits and boxes, and routing exposed cables and conduits inconspicuously.

Construction administration services included review of contractor pricing, review of equipment submittals, coordination with installer, equipment inventory lists, site observations, commissioning, and record drawings.

#### PROBLEM OR NEED

Upgrade of video surveillance system to IP-based system

#### PUCKETT SOLUTIONS

Designed IP-based system of 32 IP video cameras

Coordinated camera placement with principal and security resource officer

Network Video Recorder

Lightning/surge protection

Installation designed to maintain building aesthetics

Construction administration, installation coordination, and commissioning of installed system

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Year Completed: 2012

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