



The video security system will span 30 locations throughout the village. These include the Village Hall, performing arts center, public safety building, nursing division, senior center, municipal airport, commuter rail station, engineering and public works building, five fire stations and 12 water infrastructure facilities.

gor and Brierton shared the virtue of always looking ahead. Understanding it was a multiphase project, they seemed to focus on lessons learned, proactively. While this led to some fine-tuning on Phase 1, the idea was to have consistency across all phases, improving quality while being mindful of efficiencies that could be achieved.

Phase 1 included cameras in the Village Hall, Schaumburg's renowned Prairie Center for the Performing Arts (including an outdoor stage), a senior center, the Engineering and Public Works building (including a fuel station), the municipal airport (including fueling station, terminal building, parking areas and hangars), the commuter rail station, and one of the water towers. With the number of different venues involved, Pentegra liked the variety.

"Each location was different and required adjustment and flexibility to install, and each presented unique challenges to provide the camera views that the village was looking to achieve," notes Brierton. This presented a major coordination effort, however. "Proactive communication and scheduling with the village departments and personnel required extra attention. Each has its own daily tasks and calendars that work in conjunction with each other," he adds.

This required multicollaboration, for which Pentegra earned high praise. "For the most part, unless there were specific issues to address, we didn't even know Pentegra was there," remarks Westgor.

Asked to describe a specific area that presented challenges, Brierton pointed to the municipal airport. "The Schaumburg Airport site was one of the most challenging to coordinate since it involved tenants, flight crews, aircraft, village staff and the public on a daily basis," he says. "There were special power considerations that required specialized cameras and lenses to achieve specific views as well as point-to-point wireless systems for the camera network." In particular, RG&A had specified the use of light poles for camera mounting positions that were later ruled out for various considerations, forcing alternate locations to be sought out and mounting methods to achieve the desired views. Pentegra was instrumental in making this happen, offering field modifications and product substitutions that improved upon the initial design.

Pentegra went the extra mile in this and other locations. For example, a specification requirement was to paint conduit and housings to match, to the greatest extent possible. At the airport hangars, this meant using three separate colors to hide the conduit; at the performing arts

center where the cameras and wireless antennas were visible as part of the stage, even the antennas were painted to blend in with the surroundings (see photo on page 50).

Water towers required careful consideration as well. "You can't just drill a hole in a water tower for cabling," observes Westgor. "Engineering review and approval are essential to minimize the number of penetrations, and cabling sharing the same penetrations needed to be compatible to minimize signal interference." As all but one of the water towers are in later phases, this will be an area of focus and coordination going forward.

Asked how working with a municipal contract like Schaumburg is different from working with commercial/industrial clients, Brierton remarks, "There are many departments within a municipal entity that are involved rather than one individual. Collaborating with all departments in a team environment was key to providing a successful project and satisfied customer. Working with the Village of Schaumburg, you begin to understand they are all working together to support their public customers. Working within that environment is much different from a commercial/industrial company that is mainly responsible for its employees at a given facility."