

# Project Profile

sidwell & scott air force base

As part of a plan to privatize the military housing at Scott Air Force Base in Illinois, Sidwell was contracted to secure aerial photography and collect planimetric data for an ALTA Survey of the subject property immediately following construction of new housing units.

In order to accommodate a tight ALTA Survey submission schedule, Sidwell developed a plan to photograph the nearly 600 acres in three progressive phases closely following the site construction. For the first phase, Sidwell performed an aerial survey in March of 2008 covering 105 acres where construction was nearly complete. The second phase will include two large parcels totaling 400 acres which is scheduled for August. The final flight was secured in October of 2008 to cover all the final sections of construction.

Aerial targets were set on pre-determined locations around the project and a GPS survey was performed to support the photo control needs of the project. Next Sidwell secured color low flight aerial photography using Airborne GPS. Each phase of the project included scanning of the newly processed aerial film. Analytical aerial triangulation was used to extend the control to each photograph in the block. Sidwell's experienced photogrammetric technicians then viewed the photography stereoscopically on stereo data collection workstations to collect all planimetric detail into the MicroStation DGN and AutoCad DWG environment. A surface model was collected to support the digital orthophoto image conversion. Digital Imagery was delivered as TIF format with TFW world files containing 1/4 foot ground pixel resolution.

