

Case Study

Survey and Construction



Customer: Sweeney Excavation

Web Site: www.sweeneyexcavation.com

Country/Region: Northeast U.S.

Application: Site preparation in challenging terrain with shadowing.

Customer Profile

Sweeney Excavation Inc. is a premier provider of commercial services and residential site development with a fundamental emphasis on customer satisfaction, quality and professionalism. Services encompass all aspects of commercial and residential site development.

Products Utilized in Solution

- RTK Bridge™-C with 900 MHz internal radio
- Trimble Site Vision GPS



Excavation Company Digs Itself Out of RTK Connectivity Hole.

"We drove it [The Intuicom RTK Bridge™-C] to where we were losing signal. As soon as the truck arrived, all the machines were back up and ready to go."

Brian Sweeney, Sweeney Excavation

Situation

Sweeney Excavation of Hamden Connecticut was contracted to prepare the site for a 100 unit apartment complex. The job called for 50,000 yards of total excavation involving substantial rock drilling and blasting as well as highway widening. The terrain presented several unique challenges. The ideal location for a base station was directly under high voltage wires, and steep slopes along the job site resulted in recurrent loss of signal.

Communication Solution

An Intuicom RTK Bridge™ with an internal 900 MHz radio was used instead of a base station. The RTK Bridge connected to Trimble Site Vision system via a cellular connection and rebroadcast the corrections from the Trimble VRS network to receivers in the field.

Results

The Intuicom RTK Bridge™-C provided an ideal solution which increased productivity by eliminating both the

need for a base station as well as signal shadowing. The RTK Bridge-C streams RTK corrections from the internet over a cellular network and relays them via radio.

The result: no need for a base station so no need to worry about overhead high voltage wires. "It allows us to be very mobile," said Brian Sweeney, owner of the company. "We took the RTK Bridge out of the trailer (where it was safely installed and operating) and put it in the supervisor's pickup, which took all of 10 minutes. We drove it where we were losing signal. As soon as the truck arrived, all the machines were back up and ready to go."

The RTK Bridge-C eliminated the need for a base station which would have to be set up and taken down each day, creating more time to actually work on the site each day. "It could be set up virtually anywhere with no extra setup," stated a satisfied Sweeney.