



Company: C.W. Matthews

Location: Marietta, GA

Project: US 27 North/South Expansions

Location: Summerville, GA

Scope: Widen existing two-lane to four-lane highway

Cost: \$53,824,022 (combined projects)

Topcon Products:

HiPer+ GPS+ base/rover

FC-100 field controller

Pocket 3D software

(2) 3D-GPS+ automatic w/Millimeter GPS™/Cat 14H



C.W. Matthews, based in Marietta, Georgia, is one of the state's biggest heavy highway contractors. They are currently widening two sections of US 27 in the northwest part of the state. Georgia DOT is carefully monitoring these projects as part of an evaluation of Topcon's Millimeter GPS™/LazerZone™ for highway subgrade preparation. Construction of the mainline widening was started in early 2006 and the results have been excellent.



Adam Chance, foreman - GPS fine grading

Adam Chance, foreman for fine grading operations, manages data on the site for both machine control systems and rover applications. "When we first started, we had to do a 1,000-foot test run," he said. "They checked our

bluetops just like the did back in the old days - every 20 meters (66 feet). After we did that run, we now only have to set bluetops every 100 meters (328 feet). And we're slowly but surely phasing them out. Eventually we won't have to set bluetops - ever."

Required subgrade tolerance is plus or minus one-quarter inch. "We've finished around 4,000 feet so far," Chance said. "GDOT has been satisfied with the

accuracy we are obtaining. Everything has worked well for us so far."

Michelle Jackson, GDOT project engineer, is optimistic about the use of Topcon's Millimeter GPS+ for subgrade preparation. "I really do like how this project is going," she said. "The hubs out on the road can get knocked around. People are not as careful as they should be around those stations. I think it's going to help with the accuracy."



Michelle Jackson, project engineer

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Roper Laser

1171 South Marietta Parkway Southeast

Marietta, GA 30060

770-422-1717

www.ropelaser.com

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7400 National Drive

Livermore, CA 94551

800-443-4567

www.topconpositioning.com