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CAD Systems Manager  
Miller Legg

## Firm Completes Project Designs 50 Percent Faster

Miller Legg adopts Autodesk® Civil 3D® software as its primary civil design application and gains competitive advantage

### Project Summary

With offices throughout Florida, Miller Legg is one of the largest multidiscipline engineering firms in the state. The progressive company has grown rapidly in recent years, increasing its number of employees from 100 to 200. The firm’s leadership understands that the best employees seek employers that offer the chance to work with the most advanced technologies. Not only has Miller Legg doubled its staff in recent years, but it has recruited the top talent, in part because of the firm’s commitment to superior technology.

With strong competition among engineering firms, Miller Legg gained a competitive advantage by adopting Autodesk Civil 3D as its primary civil design software. Using Civil 3D, Miller Legg is able to

- Complete parcel layout projects 50 percent faster
- Create profiles six times faster
- Deliver better designs to clients faster
- Gain competitive advantage over less technologically advanced firms
- Recruit smart, talented employees that seek to work with the best technology

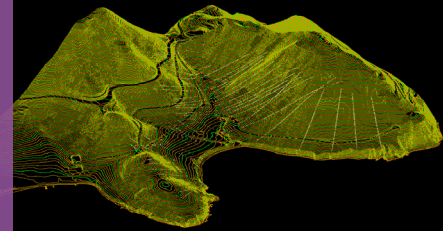
### The Challenge

Miller Legg is committed to staying in tune with the civil engineering industry. They listen closely to their clients’ needs and are known for keeping increasingly complex projects on schedule.

Before implementing Autodesk Civil 3D, Miller Legg engineers spent long hours analyzing digital map data without intelligent database attributes. Designers struggled with older software technology that did not link the drawing linework very well to the external design database information it represented. “We see the practice of working with intelligent data and dynamic objects driving the civil engineering industry,” says Todd Nochomson, CAD Systems Manager. “Miller Legg is making the transition to Autodesk Civil 3D now to gain a competitive advantage and to deliver better designs to our clients faster.”

### The Solution

Miller Legg is seeing a shorter learning time from initial training to applying the software to day-to-day projects. Engineers use the software for tasks ranging from earthwork to parcel layout. “On average, Autodesk Civil 3D helps us to complete parcel layout tasks 50 percent faster,” says



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Nochomson. “We anticipate more projects and tasks will see similar results, reducing both time and costs. These tools give us the speed and high-quality results that are key to gaining competitive advantage.”

### **New Way of Looking at Data**

Implementing Autodesk Civil 3D gave Miller Legg an opportunity to reassess its needs and customize its software use to improve the bottom line. The software provides intelligent object models for civil engineers much the way geographic information systems (GIS) provide intelligent network models for electric and water utilities.

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### **The Result**

Miller Legg is using Autodesk Civil 3D to design several subdivisions in Florida and the Caribbean, ranging from 140 to more than 1,000 parcels. Designers state that the software’s tools enable them to complete design tasks much faster than traditional applications. For example, Chuck Turlington, a designer working on the Indigo Bay project in St. Martin, estimates that he can create profiles at least six times faster using Autodesk Civil 3D. “I can now create profiles in 30 minutes, compared to at least three hours with 2D systems.

And, editing data is easier than ever – freeing designers to focus on the design data, without having to update changes and report them to other departments,” says Turlington.

The Indigo Bay project is located on a mountainside with elevations varying from 0–200 meters above sea level. Turlington found that the software’s ability to dynamically link profiles and alignments in designs saved significant time, eliminating the need to create profiles for each elevation.

Both Nochomson and Turlington agree that style-based environments help them to shorten project schedules even more. Designers use the styles they are comfortable with, but the final designs are automatically transformed to meet company standards. “The software ensures things are not missing from our drawings and helps us to maintain quality deliverables,” adds Turlington.

### **Creating a Competitive Edge**

Miller Legg competes with other civil engineering firms to win increasingly sophisticated design projects. Autodesk Civil 3D enables Miller Legg to differentiate itself from the competition by quickly producing easily understandable proposals and design alternatives that address customers’ needs. Nochomson adds, “We can provide our clients with multiple accurate 3D design alternatives faster than the competition can create only one or two preliminary designs.”

To learn more about how Autodesk Civil 3D is helping organizations around the world complete projects faster and more cost effectively, visit [www.autodesk.com/civil3D](http://www.autodesk.com/civil3D).