

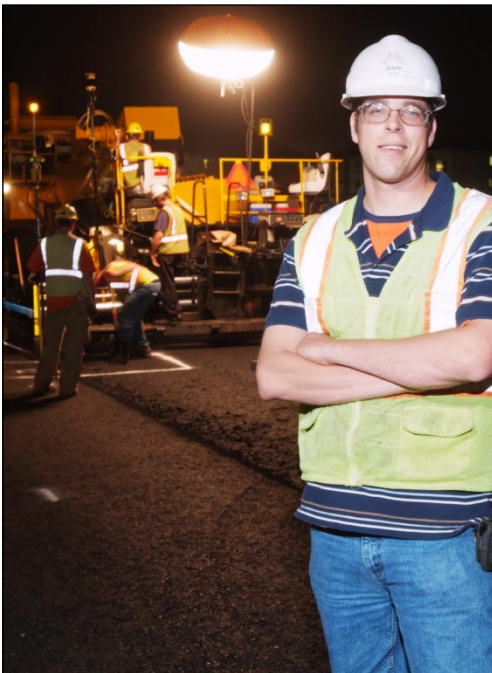
# AT WORK



Paving  
Winter 2008



## Millimeter GPS™ makes for smooth ride



Scott J. Styfco, Myers' roadway manager for the paving project.

In these days of high asphalt costs, contractors are very concerned about asphalt yield. Especially if they're paid by the square yard, they don't want to lay the mat extra thick just to be extra-sure they meet the spec.

That's what they believe at the Allan A. Myers Civil Division of American Infrastructure – and they did something about it. They purchased a Millimeter GPS™ system from Topcon, and they figure it will pay for itself, in reduced asphalt waste in a year and a half.

"The Millimeter GPS controls the elevation of the uncompacted mat and gives us assurance that we're maintaining a consistent mat thickness during high production paving," says Scott J. Styfco, Myers' roadway manager for the five-mile asphalt paving project on the Pennsylvania Turnpike. "All of our blacktop is paid for in square yards, so if we lay it too thick, it comes out of our pocket."

Under a \$168-million contract, Myers is widening the stretch of Interstate 276 to six lanes from four. Last year, without a Millimeter GPS system attached to the paver, Myers paved the outside shoulders and slow lanes on both sides of the highway.

**Company:** Allan A. Myers Civil, a division of American Infrastructure  
**Location:** King of Prussia, Pennsylvania

**Project:** Pennsylvania Turnpike, Western Widening runway resurfacing

**Location:** King of Prussia, Pennsylvania

**Scope:** \$168-million widening of the Pennsylvania Turnpike from four lanes to six.

**Topcon Products:**

Topcon Millimeter GPS™ system HiPer Ga receiver base station and rover

**Topcon Dealer:**  
Boyd Instrument & Supply Co. Inc.  
Horsham, Pa  
[www.boydinstrument.com](http://www.boydinstrument.com)

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# AT WORK

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– Scott J. Styfco, Myer's roadway manager



Ray Tripp, surveyor for Myers, checks the grade of the uncompacted asphalt on the Turnpike project. Paving the Turnpike was a high-production project; Allan A. Myers averaged 2,500 tons of hot mix per shift.



Paving day-and-night for widening project near King of Prussia, PA

*Continued from page 1*

"Last year we had a tendency to lay the material a little bit thicker, to make sure we weren't going too thin anywhere," says Styfco. "This year, with Millimeter GPS, we can control the mat thickness better, so we don't waste any asphalt and we don't have any cases of insufficient mat thickness."

This was one of the first applications of a Millimeter GPS system on an asphalt paver, say Topcon officials.

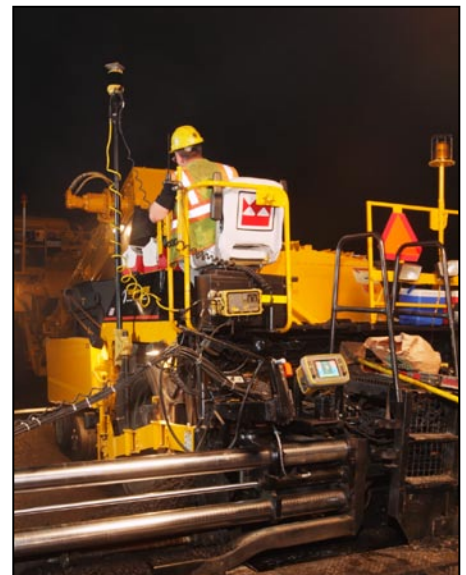
Myers is running 24 trucks to average 2,500 tons per night, up to 4,500 tons per shift. With the plant making about 400 tons of hot mix per hour. The contractor paves at night because that's when the plant can dedicate itself to the Turnpike project.

What's more, the Millimeter GPS system helps achieve a smooth ride on the asphalt surface.

"Utilizing the Millimeter GPS system on the lower four courses of asphalt contributed to attaining an average IRI (International Roughness Index) of 70 on the binder course this year," says Jeff Dremel, project engineer.

"The Millimeter system helped achieve a much better quality ride than we got last year using manual control methods." A recent IRI reading was 62, which is better than the specified number of 70.

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## Topcon's Millimeter GPS™ with LazerZone™

**World's first millimeter-accurate GPS system - up to 300% more accurate than standard GPS!**  
**At the heart of the Millimeter GPS™ system is Topcon's LazerZone™ technology.**



Combine LazerZone™ with GPS+ to achieve millimeter accuracy. LazerZone™ transmitter provides wide vertical measurement area - 600m/2,000 ft diameter, 10m/33 ft. height.

Simply set up your Topcon RTK GPS+ system as usual, add a wireless PZS-1 sensor to your mobile rover, and set up the PZL-1 transmitter to get instant millimeter accurate elevations anywhere in the LazerZone™!