

**Productivity First-Round Winner**  
Innovations Challenge

**April 2017**

Prepared by Transportation Planning  
Missouri Department of Transportation

## Scanning Total Station



### Description

The Scanning Total Station allows design and construction survey staff, the ability to function within work zones safely and efficiently without the need for additional safety personnel or equipment. It also allows for free flow of traffic by eliminating the need for personnel or equipment to enter the traffic lanes, thus eliminating the need for additional traffic stops or disruptions. This new technology is an improved and safer method for accessing work zones, such as pavement, bridges, depressed roadways, signage, slopes, eroded area, overhead collapses and inaccessible utilities as well as “final as-built” and Quality Assurance checks.

### Benefit

This method saves money by eliminating the need for additional personnel and equipment in work zones and decreases the amount of time needed for data collection and construction staking. It also saves time because it is a faster and more efficient way of collecting data. An employee’s work is simplified by keeping personnel and equipment from having to enter high traffic areas. Safety is improved since workers are not in direct contact with the actual work zone and traffic areas. It helps eliminate a significant need for personnel to access direct traffic areas, which eliminates the disruption in traffic flow.

### Materials and Labor

No extra staff time required and no material costs.

### For More Information Contact:

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Additional photos or videos can be seen by accessing the Innovations Challenge SharePoint page at: <http://sharepoint/systemdelivery/TP/Documents/InnovationsChallenge.aspx>.