

## Projects First-Round Winner

Innovations Challenge

<http://wwwi/intranet/cr/SolutionsAtWork/Innovations.htm>

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Prepared by Transportation Planning  
Missouri Department of Transportation

## Striped Roundabout



### Description

The first mini-roundabout was designed and installed on the state system at Route W and Business 54 in Miller County, an existing intersection that was prone to accidents. To reduce the number and severity of accidents, the mini-roundabout was chosen as a solution that could easily be added to the resurfacing project being completed. It was an economically feasible solution to improve the functionality of the intersection versus the existing condition or installation of a signal. The mini-roundabout allowed MoDOT to remove the stop sign at Route W and create a yield condition on all three legs of the intersection. This reduced the speed of vehicles on Business Route 54 and eliminated the left turn collisions common at this location.

### Benefit

The improved safety has reduced the number and severity of accidents at the intersection and the trend is expected to continue. The lower initial cost and maintenance costs compared to signaling the intersection saves the department money.

### Materials and Labor

By using bid item costs which include labor, materials and overhead, the total cost of project was approximately \$11,000 vs. an estimated signal installation cost of \$150,000. The annual reoccurring cost is the restriping of pavement markings. Currently, the intersection is in testing phase with the intention of adding divisional islands if needed.

### For More Information Contact:

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Additional photos can be seen by accessing the Innovations Challenge homepage at: <http://wwwi/intranet/cr/SolutionsAtWork/Innovations.htm>.