



CMF / CRF Details

CMF ID: 9793

Conversion of intersection into single-lane roundabout

Description: Conversion of intersection into single-lane roundabout

Prior Condition: All way stop

Category: Intersection geometry

Study: [Crash Modification Factors Based on Crash Histories of 148 Modern Roundabouts in Five States, Zhang and Wang, 2017](#)

Star Quality Rating:	
<input type="text" value="✘ Star"/>	[View score details]

Crash Modification Factor (CMF)	
Value:	1.15
Adjusted Standard Error:	
Unadjusted Standard Error:	1.07

Crash Reduction Factor (CRF)	
Value:	-15 (This value indicates an increase in crashes)
Adjusted Standard Error:	
Unadjusted Standard Error:	107

Applicability

Crash Type:

All

Crash Severity:

All

Roadway Types:

Not specified

Number of Lanes:

Road Division Type:

Speed Limit:

Area Type:

Not specified

Traffic Volume:

Time of Day:

Not specified

If countermeasure is intersection-based

Intersection Type:

Intersection Geometry:

Traffic Control:

Major Road Traffic Volume:

Minor Road Traffic Volume:

Development Details

Date Range of Data Used:

2005 to 2013

Municipality:

State:

FL, IN, NY, PA, WA

Country:

USA

Type of Methodology Used:

3

Sample Size Used:

Other Details

Included in Highway Safety Manual?

No

Date Added to Clearinghouse:

Oct-27-2018

Comments:

All-way stop to single lane roundabout The number of crashes in the after period were not reported in this study, however, they have been recorded as 300 to give 10 points as a benefit of doubt for one or more of the following: (1) number of miles/sites in the reference/treatment group, (2) number of crashes in the references/treatment group, (3) reporting AADTs for the aggregate dataset but not for the disaggregate dataset used for CMF development.

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