



## CMF / CRF Details

**CMF ID: 10436**

**Conversion of intersection into high-speed roundabout**

**Description: Conversion of intersection into high-speed roundabout**

**Prior Condition: Minor Road Stop-Controlled Intersections**

**Category: Intersection geometry**

**Study: [Evaluation of Roundabouts on High-Speed Roadways, Bagley, D.L., 2020](#)**

**Star Quality Rating:**



### Crash Modification Factor (CMF)

**Value:** 0.38

**Adjusted Standard Error:**

**Unadjusted Standard Error:** 0.1

### Crash Reduction Factor (CRF)

**Value:** 62 (This value indicates a **decrease** in crashes)

**Adjusted Standard Error:**

**Unadjusted Standard Error:** 10

**Applicability**

<b>Crash Type:</b>	Other
<b>Crash Severity:</b>	All
<b>Roadway Types:</b>	All
<b>Number of Lanes:</b>	
<b>Road Division Type:</b>	
<b>Speed Limit:</b>	35-55 MPH
<b>Area Type:</b>	All
<b>Traffic Volume:</b>	
<b>Time of Day:</b>	All

***If countermeasure is intersection-based***

<b>Intersection Type:</b>	Roadway/roadway (not interchange related)
<b>Intersection Geometry:</b>	3-leg,4-leg
<b>Traffic Control:</b>	Roundabout
<b>Major Road Traffic Volume:</b>	2000 to 12500 Annual Average Daily Traffic (AADT)
<b>Minor Road Traffic Volume:</b>	400 to 11000 Annual Average Daily Traffic (AADT)

**Development Details**

<b>Date Range of Data Used:</b>	1999 to 2019
<b>Municipality:</b>	
<b>State:</b>	NC
<b>Country:</b>	

<b>Type of Methodology Used:</b>	2
<b>Sample Size Used:</b>	

<b>Other Details</b>	
<b>Included in Highway Safety Manual?</b>	No
<b>Date Added to Clearinghouse:</b>	Jun-01-2020
<b>Comments:</b>	This CMF is for Frontal Impact Crashes.

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