



# CMF / CRF Details

CMF ID: 213

Convert to roundabout

Description:

Prior Condition: *No Prior Condition(s)*

Category: Intersection geometry

Study: [\*Safety Effects of Roundabouts in Flanders: Signal Type, Speed Limits, and Vulnerable Road Users, De Brabander and Vereeck, 2007\*](#)

Star Quality Rating:

8 Stars

## Crash Modification Factor (CMF)

Value: 0.61

Adjusted Standard Error: 0.08

Unadjusted Standard Error: 0.04

## Crash Reduction Factor (CRF)

Value: 39 (This value indicates a **decrease** in crashes)

Adjusted Standard Error: 8

Unadjusted Standard Error: 4

## Applicability

**Crash Type:**

All

**Crash Severity:**

A (serious injury),B (minor injury),C (possible injury)

**Roadway Types:**

Not specified

**Number of Lanes:**

**Road Division Type:**

**Speed Limit:**

**Area Type:**

Not specified

**Traffic Volume:**

**Time of Day:**

### *If countermeasure is intersection-based*

**Intersection Type:**

Roadway/roadway (not interchange related)

**Intersection Geometry:**

Not specified

**Traffic Control:**

Not specified

**Major Road Traffic Volume:**

**Minor Road Traffic Volume:**

## Development Details

**Date Range of Data Used:**

**Municipality:**

**State:**

**Country:**

**Type of Methodology Used:**

2

<b>Sample Size Used:</b>	
<b>Other Details</b>	
<b>Included in Highway Safety Manual?</b>	No
<b>Date Added to Clearinghouse:</b>	Dec-01-2009
<b>Comments:</b>	

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This site is funded by the U.S. Department of Transportation Federal Highway Administration and maintained by the University of North Carolina Highway Safety Research Center

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