



CMF / CRF Details

CMF ID: 4185

Convert signalized intersection to modern roundabout

Description:

Prior Condition: Signalized intersection

Category: Intersection geometry

Study: [Safety Effectiveness of Converting Signalized Intersections to Roundabouts, Gross et al., 2012](#)

Star Quality Rating:	
4 Stars	[View score details]

Crash Modification Factor (CMF)	
Value:	0.34
Adjusted Standard Error:	
Unadjusted Standard Error:	0.06

Crash Reduction Factor (CRF)	
Value:	66 (This value indicates a decrease in crashes)
Adjusted Standard Error:	
Unadjusted Standard Error:	6

Applicability

Crash Type:	All
Crash Severity:	A (serious injury),B (minor injury),C (possible injury)
Roadway Types:	Not Specified
Number of Lanes:	1 to 2
Road Division Type:	
Speed Limit:	15-35 mph
Area Type:	Urban and suburban
Traffic Volume:	
Time of Day:	All

If countermeasure is intersection-based

Intersection Type:	Roadway/roadway (not interchange related)
Intersection Geometry:	3-leg,4-leg
Traffic Control:	Roundabout
Major Road Traffic Volume:	5300 to 52500 Average Daily Traffic (ADT)
Minor Road Traffic Volume:	

Development Details

Date Range of Data Used:	2000 to 2009
Municipality:	
State:	CO, FL, IN, MD, MI, NY, NC, SC, VT, WA
Country:	
Type of Methodology Used:	2

Sample Size Used:	Sites
Before Sample Size Used:	28 Sites
After Sample Size Used:	28 Sites

Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Nov-01-2012
Comments:	Countermeasure name has been slightly modified for consistency across Clearinghouse

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