



# CMF / CRF Details

CMF ID: 411

Transverse bar pavement marking at roundabout approaches

Description:

Prior Condition: *No Prior Condition(s)*

Category: Speed management

Study: [\*A Review of Two Innovative Pavement Patterns that Have Been Developed to Reduce Traffic Speeds and Crashes, Griffin and Reinhardt, 1996\*](#)

Star Quality Rating:

## Crash Modification Factor (CMF)

Value: 0.32

Adjusted Standard Error: 0.23

Unadjusted Standard Error: 0.11

## Crash Reduction Factor (CRF)

Value: 68 (This value indicates a **decrease** in crashes)

Adjusted Standard Error: 23

Unadjusted Standard Error: 11

## Applicability

**Crash Type:** Speed related,Wet road

**Crash Severity:** Not specified

**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:** Roundabout

**Major Road Traffic Volume:**

**Minor Road Traffic Volume:**

## Development Details

**Date Range of Data Used:**

**Municipality:**

**State:**

**Country:**

**Type of Methodology Used:** 3

<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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