



# CMF / CRF Details

CMF ID: 10227

Install sidewalk

Description:

Prior Condition: No sidewalk present

Category: Pedestrians

Study: [Estimation of bicycle crash modification factors \(CMFs\) on urban facilities using zero inflated negative binomial models, Raihan et al., 2019](#)

Star Quality Rating:

3 Stars

[\[View score details\]](#)

## Crash Modification Factor (CMF)

Value: 3.09

Adjusted Standard Error:

Unadjusted Standard Error: 1.62

## Crash Reduction Factor (CRF)

Value: -209 (This value indicates an **increase** in crashes)

Adjusted Standard Error:

Unadjusted Standard Error: 162

## Applicability

**Crash Type:** Vehicle/bicycle

**Crash Severity:** All

**Roadway Types:** Not specified

**Number of Lanes:** 6

**Road Division Type:** Divided by Median

**Speed Limit:** 40-55 MPH

**Area Type:** Urban

**Traffic Volume:** 8000 to 98500 *Annual Average Daily Traffic (AADT)*

**Time of Day:** All

### *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:** 2011 to 2014

**Municipality:**

**State:** FL

**Country:** USA

**Type of Methodology Used:** 7

<b>Sample Size Used:</b>	
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<b>Other Details</b>	
<b>Included in Highway Safety Manual?</b>	No
<b>Date Added to Clearinghouse:</b>	Dec-07-2019
<b>Comments:</b>	This CMF applies to vehicle-bicycle crashes on urban six-leg divided highways.

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