



# CMF / CRF Details

**CMF ID: 6701**

**Widen shoulder**

**Description:**

**Prior Condition: Narrower paved shoulder than after condition**

**Category: Shoulder treatments**

**Study: [Safety Impacts of Highway Shoulder Attributes in Illinois, Bamzai et al., 2011](#)**



<b>Star Quality Rating:</b>	 <a href="#">[View score details]</a>
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<b>Value:</b>	0.96
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<b>Adjusted Standard Error:</b>	
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<b>Unadjusted Standard Error:</b>	
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<b>Value:</b>	4 (This value indicates a <b>decrease</b> in crashes)
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<b>Adjusted Standard Error:</b>	
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**Unadjusted Standard Error:**

### Applicability

**Crash Type:**

Fixed object,Head on,Run off road,Sideswipe

**Crash Severity:**

K (fatal)

**Roadway Types:**

Principal Arterial Interstate

**Number of Lanes:**

**Road Division Type:**

Divided by Median

**Speed Limit:**

65

**Area Type:**

Rural

**Traffic Volume:**

30000 *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:**

2000 to 2006

**Municipality:**

**State:**

IL

<b>Country:</b>	USA
<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-22-2015
<b>Comments:</b>	This CMF applies to rural interstates with daily traffic less than or equal to 30,000 vehicles per day. This CMF applies to shoulder related crashes, defined as head-on, fixed object, sideswipe opposite direction, and run-off-road.

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