



## CMF / CRF Details

**CMF ID: 7935**

**Increase from 4 lanes to 6 lanes**

**Description:**

**Prior Condition: 4 lane roadway with LOS E**

**Category: Roadway**

**Study:** [Assessment of safety effects for widening urban roadways in developing crash modification functions using nonlinearizing link functions, Park et al., 2015](#)

**Star Quality Rating:**



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

### Crash Modification Factor (CMF)

**Value:** 0.853

**Adjusted Standard Error:**

**Unadjusted Standard Error:** 0.1

### Crash Reduction Factor (CRF)

**Value:** 14.7 (This value indicates a **decrease** in crashes)

**Adjusted Standard Error:**

|                                   |    |
|-----------------------------------|----|
| <b>Unadjusted Standard Error:</b> | 10 |
|-----------------------------------|----|

| <b>Applicability</b> |  |
|----------------------|--|
|----------------------|--|

|                            |                                                           |
|----------------------------|-----------------------------------------------------------|
| <b>Crash Type:</b>         | All                                                       |
| <b>Crash Severity:</b>     | All                                                       |
| <b>Roadway Types:</b>      | Not specified                                             |
| <b>Number of Lanes:</b>    |                                                           |
| <b>Road Division Type:</b> |                                                           |
| <b>Speed Limit:</b>        | 40-60                                                     |
| <b>Area Type:</b>          | Urban                                                     |
| <b>Traffic Volume:</b>     | 20500 to 60683 <i>Annual Average Daily Traffic (AADT)</i> |
| <b>Time of Day:</b>        |                                                           |

| <b><i>If countermeasure is intersection-based</i></b> |  |
|-------------------------------------------------------|--|
|-------------------------------------------------------|--|

|                                   |  |
|-----------------------------------|--|
| <b>Intersection Type:</b>         |  |
| <b>Intersection Geometry:</b>     |  |
| <b>Traffic Control:</b>           |  |
| <b>Major Road Traffic Volume:</b> |  |
| <b>Minor Road Traffic Volume:</b> |  |

| <b>Development Details</b> |  |
|----------------------------|--|
|----------------------------|--|

|                                 |              |
|---------------------------------|--------------|
| <b>Date Range of Data Used:</b> | 2003 to 2012 |
| <b>Municipality:</b>            |              |
| <b>State:</b>                   | FL           |

|                                  |   |
|----------------------------------|---|
| <b>Country:</b>                  |   |
| <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>       | Mar-08-2016                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Comments:</b>                          | LOS change from E (4 lanes) to D (6 lanes) The number of crashes in the after period were not reported in this study, however, they have been recorded as 300 to give 10 points as a benefit of doubt for one or more of the following: (1) number of miles/sites in the reference/treatment group, (2) number of crashes in the references/treatment group, (3) reporting AADTs for the aggregate dataset but not for the disaggregate dataset used for CMF development. |

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