



LRRB Research Need Statement 629

LRRB-8

Date: **April 3, 2020**

	Name	Agency	E-mail	Phone
Need Statement Champion:	Ted Schoenecker	Ramsey County	ted.schoenecker@co.ramsey.mn.us	651-266-7116
Submitted by:	LRRB via Priority Process (3/25/20 Meeting)			
Originated from:	LRRB Idea Solicitation Process (Pre-Screen Board Mtgs)			

Select Type:

Research OR Implementation

Need Statement Title:

Pedestrian Safety Benefits/Impacts of Right Turn Lanes in Urban Settings

Need Statement: Describe the problem or the opportunity. Include background and objective.

Right turns lanes (RTL) are used to help traffic move more efficiently; but do right turn lanes at urban intersections have a benefit or impact to pedestrian safety? Metro busses are permitted to stop in an RTL for a stop; school buses cannot. What are the impacts of RTLs to pedestrians and cars?

The data shows that right turn lanes improve vehicle safety, and roadway capacity, especially on rural/suburban higher speed roadways. But, what about pedestrians in **urban settings**?

The focus of this study would be to investigate what research/data is available to determine if there are any adverse pedestrian safety effects to RTLs within **urbans settings (Focus on urban, 40 mph and lower roadways since rural/suburban roads could skew the results)**. This should include the various types of RTL (striped, separated, etc.). If research and data is not available, a second phase of this study could be to evaluate the effect of RTLs using the U of M’s HumanFirst Lab driving simulator in a controlled test to measure any adverse safety effects RTLs have on pedestrians.

Suggested Deliverables:

Research report include monitoring of representative intersections in the study??

How does this project build upon previous research (include title or reference to a completed research effort)?

None

Provide names to consider for a Technical Advisory Panel:

Nicole Morris, U of M
 Brad Estochen, Ramsey County
 Randy Newton, City of St Paul
 Joe Gustafson, Washington County