



Mini-Roundabouts 2012 – 2013 Project Solicitation

The Minnesota Department of Transportation's Office of Traffic, Safety, and Technology (OTST), in partnership with State Aid for Local Transportation (SALT) and the Federal Highway Administration (FHWA), are soliciting for approximately \$200,000 for design and construction of at least two mini-roundabouts. Right of way acquisition is not included, if needed. Federal funding will be used for 90% of eligible total project costs. A 10% local match is required.

The main objective of this solicitation is to research the operational, maintenance, and public acceptance of mini-roundabouts. These locations will be part of a larger national research study.

Mini-roundabouts feature a smaller inscribed diameter, on the order of 50 to 80 feet, and a relatively small circular center island (e.g., diameter of 16 to 45 feet) that is traversable. One of the promising aspects of a mini-roundabout is its small footprint and relatively low implementation cost, which allows it to be a viable treatment for urban and suburban intersections of lower speed, two- or three-lane roads. In most cases, mini-roundabouts can fit within existing intersection boundaries. All channelizations will be added within existing boundaries.

The mini-roundabout should be primarily designed for vehicles less than 20 feet long that are expected to use the circular roadway around the center island, which can be raised or flush. Due to the restricted intersection geometry, buses and trucks may traverse over the center island to complete turning maneuver. It is also desirable to narrow the approach lanes of the mini-roundabout to 10 feet to ensure a reduction in speed.

This solicitation is open to cities, counties, townships, or other local agencies eligible to receive state aid funding through the Delegated Contract Process (DCP).

General guidelines for submitting projects are:

- Intersection is currently experiencing capacity issues and/or safety issues
- Low/no truck or bus traffic (5 percent or less)
- Peak hour entering traffic volumes from all legs 800 – 1000 vehicles per hour and projected future traffic of less than 1,400 vehicles per hour
- Speed limit of 35 mph or less on all approaches

Each agency may submit more than one project. For each intersection, please submit the following information:

- 1. Application Form MR-1**
- 2. Map showing project location**
- 3. Narrative of capacity/safety issues to be addressed (if available, include crash history, peak hour traffic counts, and documented speeding issue and safety concerns, etc.)**
- 4. Letters and resolutions of support**

Application Form MR-1 (Mini-Roundabout Application Form) is available on the MnDOT State Aid Traffic Safety page: www.dot.state.mn.us/stateaid/sa_traffic_safety.html under Mini-Roundabout Solicitation.

Additional information on mini-roundabouts can be found at the following locations:

- MnDOT State Aid Traffic Safety – under Mini-Roundabout Solicitation
 - Informational Brochure
 - Other Information
- FHWA Safety Program – Technical Summary on Mini-Roundabouts
 - <http://safety.fhwa.dot.gov/intersection/roundabouts/fhwas10007/>
- ITE Journal – Mini-Roundabouts for the United States
 - <http://www.ite.org/traffic/documents/JB09BA46.pdf>

Applications and the accompanied materials should be submitted by February 8th, 2012 to Mark Vizecky at Mark.Vizecky@state.mn.us.

Selection of the projects will be made in the first week of March by a five member committee. The committee will include members from the City Engineers Safety Committee, MnDOT's State Aid for Local Transportation, and MnDOT's Office of Traffic, Safety, and Technology.

Applicants having questions or requiring assistance with this application should contact:

Mark Vizecky

651-366-3839

Mark.Vizecky@state.mn.us



Form MR-1 Mini-Roundabout Application Form

Application must be submitted by February 8th, 2012.

Identification	Contact Information:	Agency:				
		Name:				
		Address:				
		Phone Number:				
		E-mail:				
Intersection:		Roadway 1: <i>(Street Name/Number, Jurisdiction Owner)</i>				
		Roadway 2: <i>(Street Name/Number, Jurisdiction Owner)</i>				
Location:	County of:					
	Municipality of:					
Description	Brief Description of Location (Attach a Location Map):					
	Brief Description of Current Conditions:					
Eligibility		Traffic:		Roadway 1:	Roadway 2:	
		Estimated Percent of Truck/Bus Traffic:		Roadway 1:	Roadway 2:	
		Speed Limit:		Roadway 1:	Roadway 2:	
		Leg	1	2	3	4
		ADTs:				
Peak Hour Counts*						

*If blank then 10 percent of the ADTs for each leg will be used unless a recent peak hour turning movement count is attached.



Proposed Evaluation Criteria for Mini-Roundabout Solicitation

Minnesota Department of Transportation

Eligibility	Was the application received on time? February 8, 2012	Yes No	Eligible Ineligible
	Will the project allow FHWA to conduct their research?	Yes No	
	Is the project description adequate and include a location map?	Yes No	
	Are they proposing to construct a mini-roundabout?	Yes No	
Weighted Evaluation	CRITERIA		SCORE (50 Points Total)
	Description	No jurisdictional issues with intersection (letters of support) (0-2 points)	
		Support from community (0-2 points)	
		Type of traffic control device identified (0-4 points) (not identified-0, signal-2, and stop/no control-4)	
		Existing capacity issues (0-5 points)	
		Existing safety concerns (0-5 points)	
		Crash history at location (0-3 points)	
	Eligibility	Total vehicles entering intersection is less than 15,000 per day (0-5 points)	
		Peak hour all entering volume of 800 – 1000 vph (0-5 points)	
		Comparable traffic volumes on major and minor approaches of the intersection (0-2 points)	
		Comparable peak hour traffic volumes on major and minor approaches of the intersection (0-5 points)	

	Low percentage of truck/bus traffic on each leg of the intersection (0-6 points)	
	Speed limit on each leg of the intersection is 35 mph or lower (1 point for each leg with total of 6 points if all legs are lower)	
BONUS		POINTS
	Is the speed limit 30 mph or less? (1 point per leg)	
	Is the speed limit 30 mph or less on all legs of the intersection? (2 points)	
	Is the location a busy collector road junction? (2 points)	
	Currently, intersection has recurring queues during the peak hours and/or documented safety concern? (0-4 points)	
Grand Total		