

## Start



### Roundabout Bicycling Study

**Welcome!** Please fully review the following Letter of Information before deciding whether or not participate in this study.

### **Letter of Information – Roundabout Bicycling Study**

You are invited to participate in a research study by Patrick Singleton, an Assistant Professor in the Department of Civil and Environmental Engineering at Utah State University.

The purpose of this research is to study bicycling at roundabouts. Specifically, we are interested in learning about perceptions, preferences, and behaviors related to bicycling at roundabout intersections. You are being asked to participate in this research because you are an adult resident of the US.

If you take part in this study, you will be asked to complete a survey about your transportation and bicycling behaviors, preferences for bicycling at roundabouts with different designs, perceptions of comfort and safety at roundabouts, and personal characteristics. Your total participation in this study is expected to be 20

minutes.

Your participation in this study is voluntary. You may close your browser at any time to exit the survey. However, since this is an anonymous survey, once you submit the survey, we will not be able to withdraw your answers because we will not know which answers are yours.

The possible risks of participating in this study include loss of confidentiality. Although you will not directly benefit from this study, it has been designed to learn more about perceptions and preferences for bicycling at roundabouts. This may help engineers to design roundabouts that are safer for people bicycling.

We will make every effort to ensure that the information you provide remains confidential. We will not reveal your identity in any publications, presentations, or reports resulting from this research study.

We will collect your information through Qualtrics.com, an online survey platform. Online activities always carry a risk of a data breach, but we will use systems and processes that minimize breach opportunities. This survey data will be securely stored in a restricted-access folder on Box.com, an encrypted, cloud-based storage system.

For your participation in this study, (if you complete the entire survey) you will be offered the chance to enter a drawing to win one of ten \$50 gift cards. Contact information you provide in order to sign up for the gift card drawing will be deleted after the study has been completed and all gift cards have been distributed.

You can decline to participate in any part of this study for any reason and can end your participation at any time.

If you have any questions about this study, you can contact [transportation.study@usu.edu](mailto:transportation.study@usu.edu) (or Patrick Singleton at (435) 797-7109 or [patrick.singleton@usu.edu](mailto:patrick.singleton@usu.edu)). Thank you again for your time and consideration. If you have any concerns about this study, please contact Utah State University's

Human Research Protection Office at (435) 797-0567 or [irb@usu.edu](mailto:irb@usu.edu).

**By continuing to the survey, you agree that you are 18 years of age or older, and wish to participate.** You agree that you understand the risks and benefits of participation, and that you know what you are being asked to do. You also agree that you have contacted the research team with any questions about your participation, and are clear on how to stop your participation in this study if you choose to do so. Please be sure to retain a copy of this form for your records.

Protocol #11319. IRB Exemption Date: June 24, 2020. Consent Document Expires: June 23, 2025.

**To download a copy of this letter of information, [click here](#) (opens in a new window).**

Please select "Accept" if you have read the letter of information and agree to participate in this study.

- Accept
- Decline

Are you a resident of the United States?

- Yes
- No

Are you 18 years or older?

- Yes
- No

You have declined to participate in this study. If you change your mind, click "Accept" above. Otherwise, please click "Next" to end.

Unfortunately, this survey is only available to US residents who are at least 18 years old. Please click "Next" to end.

Thank you! Please click "Next" to continue.

### Bike filter

We anticipate that this survey will take around 20 minutes or less to complete. You will be asked questions in five sections (Parts 1 - 5). You can track your progress with the bar at the top of the screen.

Since this is a study about bicycling, before we start, we would like to know whether you can ride a bicycle. It is okay if you are unable or don't know how to ride a bicycle.

Which of the following statements best describes you?

- I am physically able to ride a bicycle, and I know how to ride a bicycle.
- I am physically able to ride a bicycle, but I don't know how to ride a bicycle.
- I am physically unable to ride a bicycle.

That is okay. You can still participate in this study, we will just ask you fewer questions.

Thank you. Please click "Next" to continue.

## Roundabout introduction

### Part 1

To start, we have a few questions about roundabouts, how you get around, and how roundabouts affect your travel patterns.

This study is about the intersection type known in the US as a modern roundabout. People may have different ideas about what is a roundabout. In the following question, please select which option(s) you think best defines a “roundabout”. It is okay to be wrong; we just want to gauge your awareness before we begin the survey.

Which of the following descriptions and images is the best definition of a roundabout? Check all that apply. If you have no idea, select "I don't know".

- A large circle typically built at the intersection of major streets. Lights/signals may control entering traffic, or entering traffic may have priority over traffic already in the circle. Lane changes in the circle may be necessary.



- A circular area, often without a central island, at the end of a dead-end street or cul-de-sac, that is used to make a U-turn.



- A circular intersection in which traffic travels counterclockwise around a central island and in which entering traffic must yield to traffic already in the circle.



- A small circle typically built at the intersection of local streets for traffic calming purposes. Approaches may or may not have stop signs.



Yes, that's right!

Many people think so too, but actually, that's not quite right.

In this study, the modern roundabout is a type of circular intersection in which traffic travels counterclockwise around a central island and in which entering traffic must yield to circulating traffic. Key characteristics of a roundabout that distinguish it from other types of circular intersections include:

- When entering, vehicles yield to other vehicles already in the roundabout.
- On each approach, a traffic island separates the entry and exit, and the curves of the roundabout are designed to encourage the desired speeds.
- It is not necessary to change lanes within the roundabout.
- Central islands at roundabouts are larger than at small neighborhood traffic circles but smaller than at rotaries and other large traffic circles.

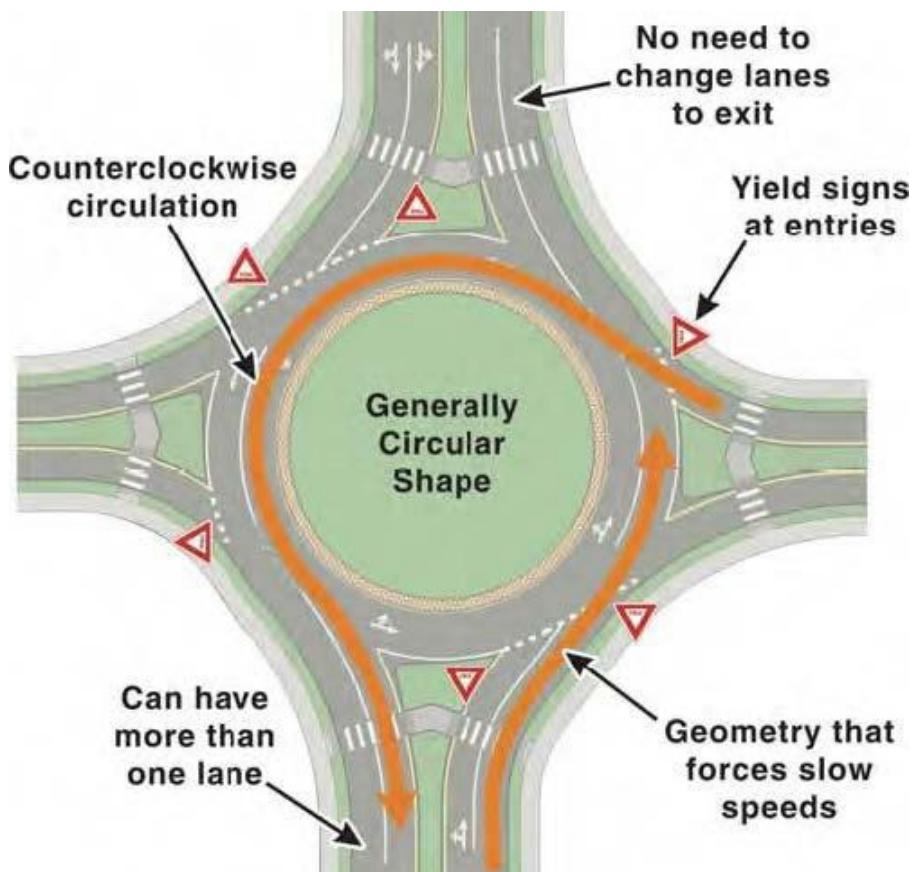


Image: Transportation Research Board. (2010). [Roundabouts: An Informational Guide – Second Edition](#) (NCHRP Report 672).

More information about roundabouts is available from the [Federal Highway Administration](#) and the [Insurance Institute for Highway Safety](#) (links open in a new window).

Please click "Next" to continue.

The following two questions ask about how you use different transportation modes. We understand that you may have recently experienced major changes in how you get around and live your life.

- For the first question, answer about how you get around in the current situation, even if it is different than normal.
- For the second question, answer about how you would be getting around under normal conditions (or how you got around at this time last year).

Under current conditions, when traveling in your community (for work, school, shopping, errands, exercise, or just for fun), how frequently do you use the following modes?

	Never	Less than once a month	1-3 days per month	1-3 days per week	4-6 days per week	Almost every day
Walk (run, skate, wheel, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bicycle	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Drive a car (truck, van, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ride as a passenger in a car	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ride public transit (bus, rail, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Under normal conditions (or last year), when traveling in your community (for work, school, shopping, errands, exercise, or just for fun), how frequently would (or did) you use the following modes?

	Never	Less than once a month	1-3 days per month	1-3 days per week	4-6 days per week	Almost every day
Walk (run, skate, wheel, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bicycle	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Drive a car (truck, van, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ride as a passenger in a car	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ride public transit (bus, rail, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

How frequently do you encounter roundabouts when traveling in your community using the following modes?

	Never	Sometimes	Often	Always
Walk	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bicycle	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Drive	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Do roundabouts affect your decisions of what routes to take when traveling in your community using following modes? If you never encounter roundabouts in your community, indicate how roundabouts *would* affect your decisions of what routes to take.

	Yes, I avoid roundabouts only when there is a reasonably convenient <i>alternative route</i> .	Yes, I <i>prefer</i> routes with roundabouts.	No, roundabouts don't affect my choice of route.
Walk	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bike	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Drive	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Do roundabouts affect your choices to travel by bicycle vs. use other modes?

- Yes, I bicycle *much less* because of roundabouts.
- Yes, I bicycle *somewhat less* because of roundabouts.
- Yes, I bicycle *somewhat more* because of roundabouts.
- Yes, I bicycle *much more* because of roundabouts.
- No, roundabouts don't affect my choice to bicycle or not.

## Experiment introduction

### Part 2

On the following pages, you will be presented with six questions, each asking you to choose between two different roundabouts with various characteristics. Please view the images, read the text, and indicate which roundabout you would

prefer if you were bicycling.

Note: You can click on an image to make it bigger.

Even if you never or rarely bicycle, imagine that you are bicycling when answering the questions.

## Experiment Block 1

Which roundabout would you prefer for bicycling?



<b>Small (80ft) central island</b>	<b>Small (80ft) central island</b>
<b>Two travel lanes</b>	<b>One travel lane</b>
<b>Separated</b> bicycle lanes	<b>Bicycle ramps</b> to the sidewalk
<b>Low</b> traffic volumes ( <b>rarely</b> have to yield to and interact with other vehicles)	<b>High</b> traffic volumes ( <b>usually</b> have to yield to and interact with other vehicles)
<b>25mph</b> speed limit on adjacent roads (25mph or less in the roundabout)	<b>25mph</b> speed limit on adjacent roads (25mph or less in the roundabout)



Which roundabout would you prefer for bicycling?



<b>Small (80ft) central island</b>	<b>Small (80ft) central island</b>
<b>Two</b> travel lanes	<b>One</b> travel lane
<b>Separated</b> bicycle lanes	<b>Bicycle ramps</b> to the sidewalk
<b>Medium</b> traffic volumes ( <b>sometimes</b> have to yield to and interact with other vehicles)	<b>High</b> traffic volumes ( <b>usually</b> have to yield to and interact with other vehicles)
<b>25mph</b> speed limit on adjacent roads (25mph or less in the roundabout)	<b>25mph</b> speed limit on adjacent roads (25mph or less in the roundabout)



Which roundabout would you prefer for bicycling?



<b>Large (120ft) central island</b>	<b>Small (80ft) central island</b>
<b>Two</b> travel lanes	<b>Two</b> travel lanes
<b>Shared lane</b> bicycle markings & signs	<b>Bicycle ramps</b> to the sidewalk
<b>High</b> traffic volumes ( <b>usually</b> have to yield to and interact with other vehicles)	<b>Low</b> traffic volumes ( <b>rarely</b> have to yield to and interact with other vehicles)
<b>25mph</b> speed limit on adjacent roads (25mph or less in the roundabout)	<b>35mph</b> speed limit on adjacent roads (25mph or less in the roundabout)



Which roundabout would you prefer for bicycling?



<b>Small (80ft) central island</b>	<b>Large (120ft) central island</b>
<b>Two</b> travel lanes	<b>Two</b> travel lanes
<b>No</b> bicycle facilities	<b>Separated</b> bicycle lanes
<b>High</b> traffic volumes ( <b>usually</b> have to yield to and interact with other vehicles)	<b>High</b> traffic volumes ( <b>usually</b> have to yield to and interact with other vehicles)
<b>35mph</b> speed limit on adjacent roads (25mph or less in the roundabout)	<b>35mph</b> speed limit on adjacent roads (25mph or less in the roundabout)



Which roundabout would you prefer for bicycling?



<b>Small (80ft) central island</b>	<b>Large (120ft) central island</b>
<b>Two</b> travel lanes	<b>One</b> travel lane
<b>No</b> bicycle facilities	<b>Shared lane</b> bicycle markings & signs
<b>High</b> traffic volumes ( <b>usually</b> have to yield to and interact with other vehicles)	<b>Medium</b> traffic volumes ( <b>sometimes</b> have to yield to and interact with other vehicles)
<b>35mph</b> speed limit on adjacent roads (25mph or less in the roundabout)	<b>35mph</b> speed limit on adjacent roads (25mph or less in the roundabout)



Which roundabout would you prefer for bicycling?



<b>Large (120ft) central island</b>	<b>Large (120ft) central island</b>
<b>One</b> travel lane	<b>Two</b> travel lanes
<b>Shared lane</b> bicycle markings & signs	<b>No</b> bicycle facilities
<b>Low</b> traffic volumes ( <b>rarely</b> have to yield to and interact with other vehicles)	<b>Medium</b> traffic volumes ( <b>sometimes</b> have to yield to and interact with other vehicles)
<b>35mph</b> speed limit on adjacent roads (25mph or less in the roundabout)	<b>25mph</b> speed limit on adjacent roads (25mph or less in the roundabout)



## Experiment Block 2

Which roundabout would you prefer for bicycling?



<b>Small (80ft) central island</b>	<b>Small (80ft) central island</b>
<b>One</b> travel lane	<b>One</b> travel lane
<b>No</b> bicycle facilities	<b>Separated</b> bicycle lanes
<b>Low</b> traffic volumes ( <b>rarely</b> have to yield to and interact with other vehicles)	<b>High</b> traffic volumes ( <b>usually</b> have to yield to and interact with other vehicles)
<b>25mph</b> speed limit on adjacent roads (25mph or less in the roundabout)	<b>35mph</b> speed limit on adjacent roads (25mph or less in the roundabout)



Which roundabout would you prefer for bicycling?



<b>Small (80ft) central island</b>	<b>Small (80ft) central island</b>
<b>Two</b> travel lanes	<b>One</b> travel lane
<b>Separated</b> bicycle lanes	<b>Shared lane</b> bicycle markings & signs
<b>Medium</b> traffic volumes ( <b>sometimes</b> have to yield to and interact with other vehicles)	<b>High</b> traffic volumes ( <b>usually</b> have to yield to and interact with other vehicles)
<b>25mph</b> speed limit on adjacent roads (25mph or less in the roundabout)	<b>25mph</b> speed limit on adjacent roads (25mph or less in the roundabout)



Which roundabout would you prefer for bicycling?



<b>Large (120ft) central island</b>	<b>Small (80ft) central island</b>
<b>One travel lane</b>	<b>Two travel lanes</b>
<b>Bicycle ramps to the sidewalk</b>	<b>Shared lane</b> bicycle markings & signs
<b>High</b> traffic volumes ( <b>usually</b> have to yield to and interact with other vehicles)	<b>Medium</b> traffic volumes ( <b>sometimes</b> have to yield to and interact with other vehicles)
<b>25mph</b> speed limit on adjacent roads (25mph or less in the roundabout)	<b>35mph</b> speed limit on adjacent roads (25mph or less in the roundabout)



Which roundabout would you prefer for bicycling?



<b>Large (120ft) central island</b>	<b>Large (120ft) central island</b>
<b>One travel lane</b>	<b>Two travel lanes</b>
<b>Bicycle ramps to the sidewalk</b>	<b>No bicycle facilities</b>
<b>High traffic volumes (usually have to yield to and interact with other vehicles)</b>	<b>Medium traffic volumes (sometimes have to yield to and interact with other vehicles)</b>
<b>25mph speed limit on adjacent roads (25mph or less in the roundabout)</b>	<b>25mph speed limit on adjacent roads (25mph or less in the roundabout)</b>



Which roundabout would you prefer for bicycling?



<b>Large (120ft) central island</b>	<b>Large (120ft) central island</b>
<b>Two</b> travel lanes	<b>One</b> travel lane
<b>Bicycle ramps</b> to the sidewalk	<b>No</b> bicycle facilities
<b>Low</b> traffic volumes ( <b>rarely</b> have to yield to and interact with other vehicles)	<b>Low</b> traffic volumes ( <b>rarely</b> have to yield to and interact with other vehicles)
<b>35mph</b> speed limit on adjacent roads (25mph or less in the roundabout)	<b>25mph</b> speed limit on adjacent roads (25mph or less in the roundabout)



Which roundabout would you prefer for bicycling?



<b>Small (80ft) central island</b>	<b>Large (120ft) central island</b>
<b>Two</b> travel lanes	<b>One</b> travel lane
<b>Shared lane</b> bicycle markings & signs	<b>Separated</b> bicycle lanes
<b>Low</b> traffic volumes ( <b>rarely</b> have to yield to and interact with other vehicles)	<b>Low</b> traffic volumes ( <b>rarely</b> have to yield to and interact with other vehicles)
<b>25mph</b> speed limit on adjacent roads (25mph or less in the roundabout)	<b>35mph</b> speed limit on adjacent roads (25mph or less in the roundabout)



## Experiment Block 3

Which roundabout would you prefer for bicycling?



<b>Large (120ft) central island</b>	<b>Small (80ft) central island</b>
<b>One travel lane</b>	<b>One travel lane</b>
<b>Shared lane</b> bicycle markings & signs	<b>Separated</b> bicycle lanes
<b>Medium</b> traffic volumes ( <b>sometimes</b> have to yield to and interact with other vehicles)	<b>High</b> traffic volumes ( <b>usually</b> have to yield to and interact with other vehicles)
<b>35mph</b> speed limit on adjacent roads (25mph or less in the roundabout)	<b>35mph</b> speed limit on adjacent roads (25mph or less in the roundabout)



Which roundabout would you prefer for bicycling?



<b>Small (80ft) central island</b>	<b>Large (120ft) central island</b>
<b>Two</b> travel lanes	<b>Two</b> travel lanes
<b>Shared lane</b> bicycle markings & signs	<b>Bicycle ramps</b> to the sidewalk
<b>Low</b> traffic volumes ( <b>rarely</b> have to yield to and interact with other vehicles)	<b>Medium</b> traffic volumes ( <b>sometimes</b> have to yield to and interact with other vehicles)
<b>25mph</b> speed limit on adjacent roads (25mph or less in the roundabout)	<b>25mph</b> speed limit on adjacent roads (25mph or less in the roundabout)



Which roundabout would you prefer for bicycling?



<b>Small (80ft) central island</b>	<b>Small (80ft) central island</b>
<b>Two</b> travel lanes	<b>One</b> travel lane
<b>Separated</b> bicycle lanes	<b>No</b> bicycle facilities
<b>Low</b> traffic volumes ( <b>rarely</b> have to yield to and interact with other vehicles)	<b>Medium</b> traffic volumes ( <b>sometimes</b> have to yield to and interact with other vehicles)
<b>25mph</b> speed limit on adjacent roads (25mph or less in the roundabout)	<b>35mph</b> speed limit on adjacent roads (25mph or less in the roundabout)



Which roundabout would you prefer for bicycling?



<b>Small (80ft) central island</b>	<b>Large (120ft) central island</b>
<b>One travel lane</b>	<b>One travel lane</b>
<b>Shared lane</b> bicycle markings & signs	<b>Shared lane</b> bicycle markings & signs
<b>High</b> traffic volumes ( <b>usually</b> have to yield to and interact with other vehicles)	<b>Low</b> traffic volumes ( <b>rarely</b> have to yield to and interact with other vehicles)
<b>25mph</b> speed limit on adjacent roads (25mph or less in the roundabout)	<b>35mph</b> speed limit on adjacent roads (25mph or less in the roundabout)



Which roundabout would you prefer for bicycling?



<b>Large (120ft) central island</b>	<b>Small (80ft) central island</b>
<b>Two travel lanes</b>	<b>Two travel lanes</b>
<b>Bicycle ramps to the sidewalk</b>	<b>Bicycle ramps to the sidewalk</b>
<b>Medium traffic volumes (sometimes have to yield to and interact with other vehicles)</b>	<b>Low traffic volumes (rarely have to yield to and interact with other vehicles)</b>
<b>25mph speed limit on adjacent roads (25mph or less in the roundabout)</b>	<b>35mph speed limit on adjacent roads (25mph or less in the roundabout)</b>



Which roundabout would you prefer for bicycling?



<b>Large (120ft) central island</b>	<b>Large (120ft) central island</b>
<b>One</b> travel lane	<b>Two</b> travel lanes
<b>No</b> bicycle facilities	<b>Separated</b> bicycle lanes
<b>Low</b> traffic volumes ( <b>rarely</b> have to yield to and interact with other vehicles)	<b>High</b> traffic volumes ( <b>usually</b> have to yield to and interact with other vehicles)
<b>25mph</b> speed limit on adjacent roads (25mph or less in the roundabout)	<b>35mph</b> speed limit on adjacent roads (25mph or less in the roundabout)



## Supplemental

### Part 3

Now, consider the following roundabout.



**Large (120ft) central island**

**Two travel lanes**

**Bicycle ramps to the sidewalk**

**Low traffic volumes (rarely have to yield to and interact with other vehicles)**

**35mph speed limit on adjacent roads (25mph or less in the roundabout)**



**Large (120ft) central island**

**Two travel lanes**

**Bicycle ramps to the sidewalk**

**Medium traffic volumes (**sometimes** have to yield to and interact with other vehicles)**

**25mph speed limit on adjacent roads (25mph or less in the roundabout)**



**Large (120ft) central island**

**Two travel lanes**

**No bicycle facilities**

**Medium traffic volumes (**sometimes** have to yield to and interact with other vehicles)**

**25mph speed limit on adjacent roads (25mph or less in the roundabout)**



**Large (120ft) central island**

**Two travel lanes**

**Separated bicycle lanes**

**High traffic volumes (usually have to yield to and interact with other vehicles)**

**35mph speed limit on adjacent roads (25mph or less in the roundabout)**



**Large (120ft) central island**

**Two travel lanes**

**Shared lane** bicycle markings & signs

**High** traffic volumes (**usually** have to yield to and interact with other vehicles)

**25mph** speed limit on adjacent roads (25mph or less in the roundabout)



**Large (120ft) central island**

**One travel lane**

**Bicycle ramps to the sidewalk**

**High traffic volumes (usually have to yield to and interact with other vehicles)**

**25mph speed limit on adjacent roads (25mph or less in the roundabout)**



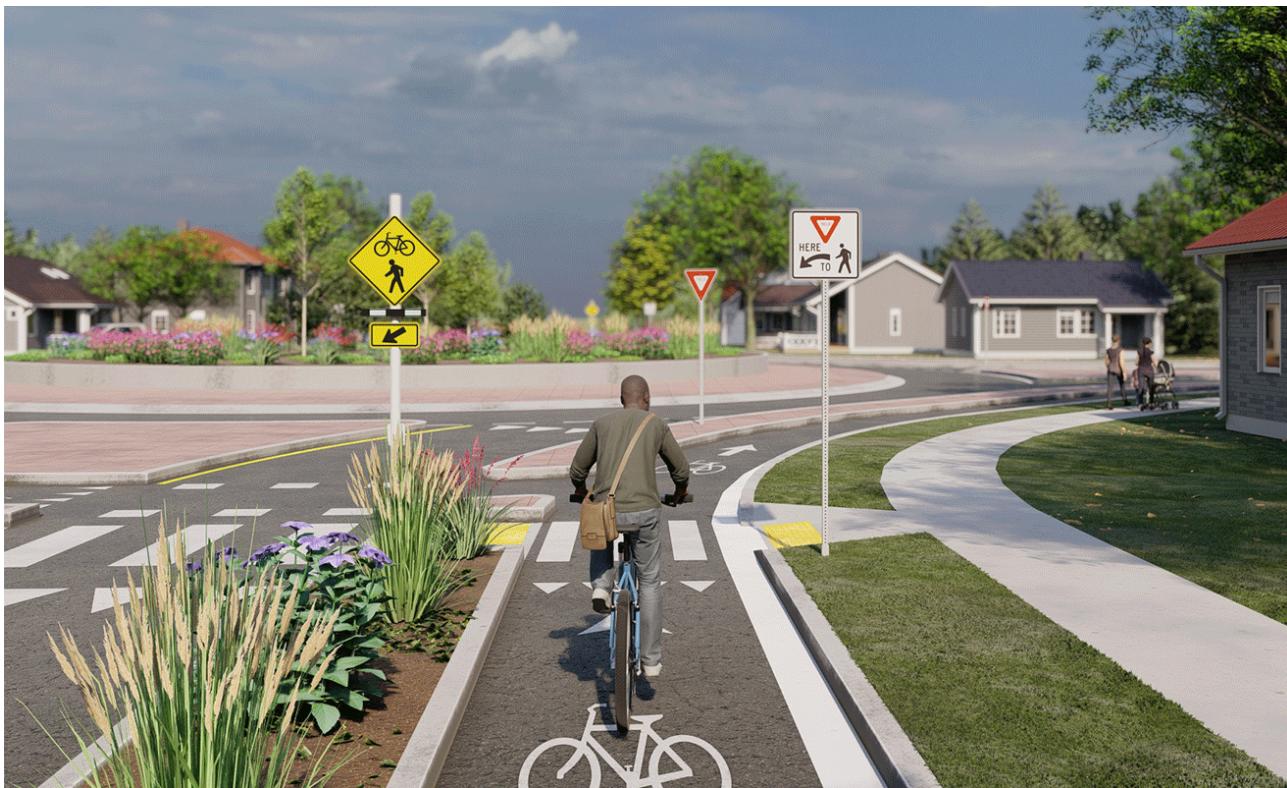
**Large (120ft) central island**

**One travel lane**

**No bicycle facilities**

**Low traffic volumes (rarely have to yield to and interact with other vehicles)**

**25mph speed limit on adjacent roads (25mph or less in the roundabout)**



**Large (120ft) central island**

**One travel lane**

**Separated bicycle lanes**

**Low traffic volumes (rarely have to yield to and interact with other vehicles)**

**35mph speed limit on adjacent roads (25mph or less in the roundabout)**



**Large (120ft) central island**

**One travel lane**

**Shared lane** bicycle markings & signs

**Low** traffic volumes (**rarely** have to yield to and interact with other vehicles)

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**Large (120ft) central island**

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**Medium** traffic volumes (**sometimes** have to yield to and interact with other vehicles)

**35mph** speed limit on adjacent roads (25mph or less in the roundabout)



**Small (80ft) central island**

**Two travel lanes**

**Bicycle ramps to the sidewalk**

**Low traffic volumes (rarely have to yield to and interact with other vehicles)**

**35mph speed limit on adjacent roads (25mph or less in the roundabout)**



**Small (80ft) central island**

**Two travel lanes**

**No bicycle facilities**

**High traffic volumes (usually have to yield to and interact with other vehicles)**

**35mph speed limit on adjacent roads (25mph or less in the roundabout)**



**Small (80ft) central island**

**Two travel lanes**

**Separated bicycle lanes**

**Low traffic volumes (rarely have to yield to and interact with other vehicles)**

**25mph speed limit on adjacent roads (25mph or less in the roundabout)**



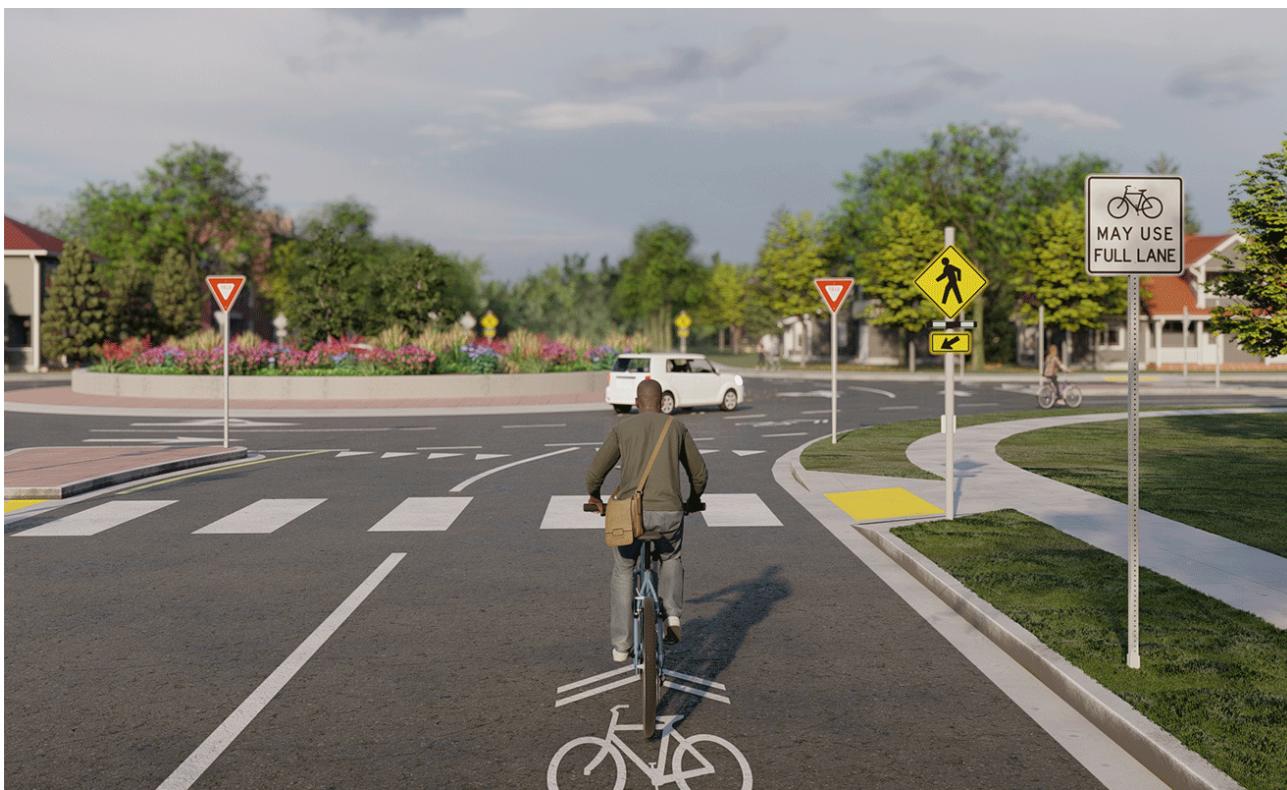
**Small (80ft) central island**

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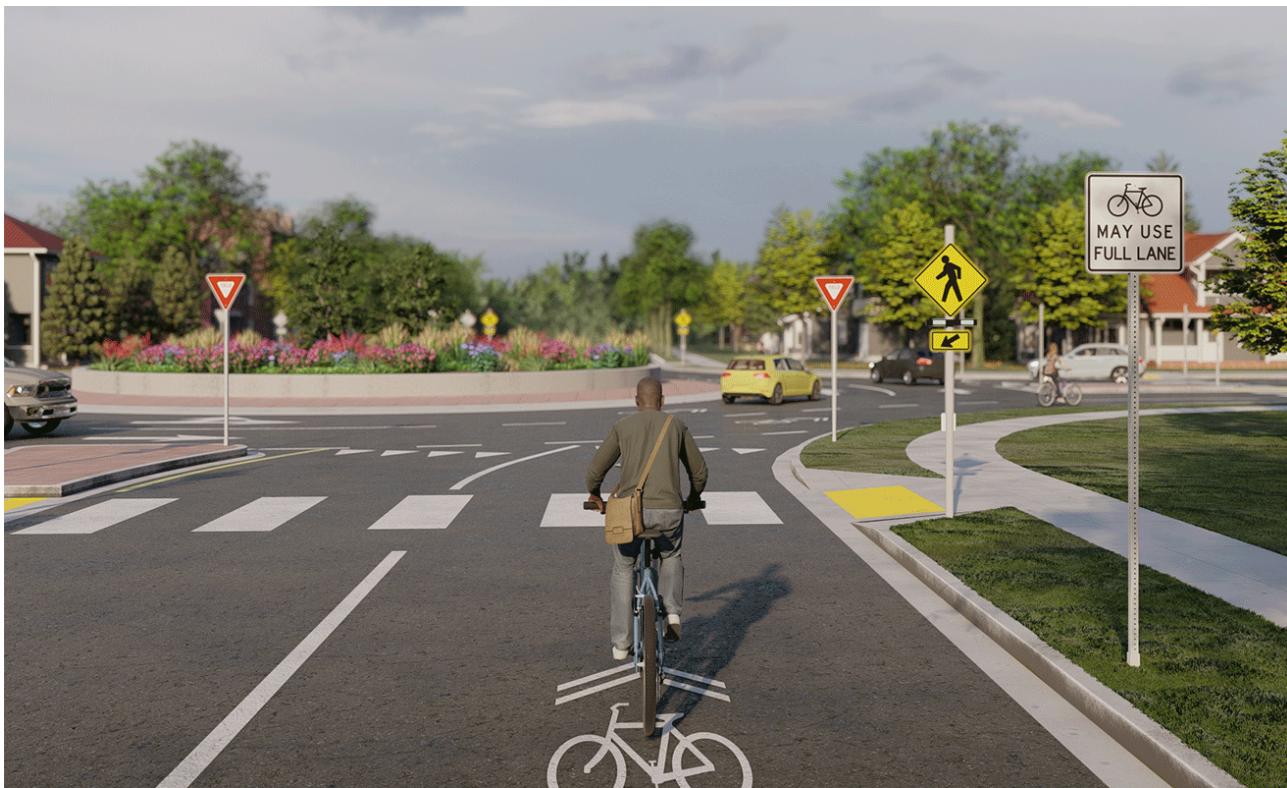
**Small (80ft) central island**

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**Small (80ft) central island**

**One travel lane**

**No bicycle facilities**

**Low traffic volumes (rarely have to yield to and interact with other vehicles)**

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**One travel lane**

**Shared lane** bicycle markings & signs

**High** traffic volumes (**usually** have to yield to and interact with other vehicles)

**25mph** speed limit on adjacent roads (25mph or less in the roundabout)

First, answer the following questions as if you were bicycling through this roundabout.

Even if you never or rarely bicycle, imagine that you are bicycling when answering the questions.

Overall, how comfortable would you feel bicycling through this roundabout?

- Very comfortable
- Somewhat comfortable
- Somewhat uncomfortable
- Very uncomfortable

How comfortable would you feel bicycling through this roundabout in following situations...

	Very comfortable	Somewhat comfortable	Somewhat uncomfortable	Very uncomfortable
Entering the roundabout	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Circulating within the roundabout	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Exiting the roundabout	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
On the sidewalk	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
In the crosswalk	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If you were bicycling straight through this roundabout, what path would you take?

- I would use the travel lane
- I would use the sidewalk and the crosswalk (or the separated bicycle lane, if it is shown in the image above)
- I would avoid the roundabout and take a different route

If you were bicycling straight through this roundabout and using the travel lane, where would you position yourself in the lane?

- Left side of the lane
- Center of the lane
- Right side of the lane

Now, answer the following questions as if you were driving a car through this roundabout.

Even if you never or rarely drive a car, imagine that you are driving when answering the questions.

Overall, how comfortable would you feel driving through this roundabout?

- Very comfortable
- Somewhat comfortable
- Somewhat uncomfortable
- Very uncomfortable

In general, how comfortable would you feel driving through this roundabout in following situations?

	Very comfortable	Somewhat comfortable	Somewhat uncomfortable	Very uncomfortable
Entering the roundabout with a person bicycling in front of you	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Circulating within the roundabout with a person bicycling in front of you	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Exiting the roundabout with a person bicycling in front of you	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If you encounter people bicycling while you are driving through this roundabout, where would you want them to be riding?

- Left side of the lane
- Center of the lane
- Right side of the lane
- Not in the travel lane (e.g., on the sidewalk)

## Bicycling

### Part 4

Now, we have a series of questions about your bicycling experiences and perceptions.

Have you ever been hit or nearly hit by a motor vehicle (or otherwise involved in a crash, collision, or accident) while bicycling at a roundabout?

- Yes, I was *hit* while bicycling at a roundabout.
- Yes, I was *nearly hit* while bicycling at a roundabout.
- No

Where in the roundabout did this incident occur?

- Entering the roundabout
- Circulating within the roundabout, passing entry points
- Circulating within the roundabout, passing exit points
- Exiting the roundabouts
- On the sidewalk
- In the crosswalk
- Other (please describe)

If you would like to tell us more about what happened, you may describe the incident in the text box below. Please do not include any personally-identifiable details.

When was the most recent time you rode a bicycle primarily for transportation (getting around)?

- In the last week
- In the last month
- In the last year
- In the last 5 years
- More than 5 years ago
- Never

When was the most recent time you rode a bicycle primarily for recreation (fun or exercise)?

- In the last week
- In the last month
- In the last year
- In the last 5 years
- More than 5 years ago
- Never

How much do you agree or disagree with the following statement?

**I would like to ride a bicycle more than I currently do.**

- Strongly agree
- Somewhat agree
- Somewhat disagree
- Strongly disagree

Why do you bike? Check all that apply.

- To enjoy being outside
- Faster than driving
- To save money on gas and travel costs
- For health or exercise benefits
- To reduce impacts on the environment or air quality
- To avoid having to park a car
- Other reason:

Why do you not bike, or why do you not bike more? Check all that apply.

- Poor or unpredictable weather
- I usually have to transport things or people when I travel
- The places I need to go to are too far to bike
- There are too few bike lanes or trails
- I need a vehicle for work, school, or other reason
- I do not have a bike to ride
- I do not feel safe because of traffic
- I do not feel safe because of crime
- I prefer to get around by modes other than riding a bicycle
- Other reason:

The following questions on this page describe different kinds of places where you could ride a bicycle. For each, indicate how comfortable or uncomfortable you would feel bicycling there.

A path or a trail separate from the street

- Very comfortable
- Somewhat comfortable
- Somewhat uncomfortable
- Very uncomfortable

A quiet residential street with traffic speeds of 20-25 mph

- Very comfortable
- Somewhat comfortable
- Somewhat uncomfortable
- Very uncomfortable

The same quiet street, but with bicycle route markings, wide speed humps, and other things that discourage and slow down car traffic

- Very comfortable
- Somewhat comfortable
- Somewhat uncomfortable
- Very uncomfortable

A major urban or suburban street with 4 lanes, on-street parking, traffic speeds of 30-35 mph, and no bike lane

- Very comfortable
- Somewhat comfortable
- Somewhat uncomfortable
- Very uncomfortable

The same major street, but with a striped bike lane

- Very comfortable
- Somewhat comfortable
- Somewhat uncomfortable
- Very uncomfortable

The same major street, but with a wide bike lane physically separated from traffic by a raised curb, planters, or parked cars

- Very comfortable
- Somewhat comfortable
- Somewhat uncomfortable
- Very uncomfortable

For each of the following statements, please indicate your level of agreement.

	Strongly agree	Somewhat agree	Somewhat disagree	Strongly disagree
I like walking.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I like bicycling.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I like driving.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Most people who <i>bicycle</i> are safe and follow the rules.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Most people who <i>drive</i> are safe and follow the rules.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

When you ride a bicycle, how often do you wear a helmet? If you don't ride a bicycle, click "Not Applicable".



When you drive or ride in a car, how often do you wear a seat belt? If you don't drive or ride in a car, click "Not Applicable".



## Personal characteristics

### Part 5

Finally, we have a few questions about you and your household. This information will be used to classify your responses and to make sure this survey reaches a broad population.

Where do you live?

City

State

ZIP

Last year, what was your approximate total household income? Include pre-tax earnings from you and all other members of your household.

- Less than \$10,000
- \$10,000 to \$14,999
- \$15,000 to \$24,999
- \$25,000 to \$34,999
- \$35,000 to \$49,999
- \$50,000 to \$74,999
- \$75,000 to \$99,999
- \$100,000 to \$149,999
- \$150,000 or more
- Don't know
- Prefer not to answer

How many bicycles are available at your home? Only count those bicycles in working condition that are privately owned or leased.

- 0
- 1
- 2
- 3
- 4
- 5+

How many motor vehicles (cars, vans, trucks, SUVs, motorcycles, scooters, mopeds, etc.) are available at your home? Only count those motor vehicles in working condition that are privately owned or leased. Do not count vehicles that are used purely for recreation (RVs, ATVs, etc.).

- 0
- 1
- 2
- 3
- 4
- 5+

Excluding yourself, how many other adults (age 18+ years) are there in your household?

- 0 (just me)
- 1
- 2
- 3
- 4
- 5+

How many children (age 0 to 17 years) are in your household?

- 0 (none)
- 1
- 2
- 3
- 4
- 5+

What is your age?

- 18 to 19 years
- 20 to 24 years
- 25 to 34 years
- 35 to 44 years
- 45 to 54 years
- 55 to 64 years
- 65 to 74 years
- 75 to 84 years
- 85 years and over
- Prefer not to answer

How do you describe yourself?

- Female
- Male
- Prefer to self-describe:
- Prefer not to answer

How do you describe yourself? Check all that apply.

- White
- Hispanic or Latino
- Asian
- Black or African American
- American Indian or Alaska Native
- Native Hawaiian or other Pacific Islander
- Prefer to self-describe:
- Prefer not to answer

What is the highest degree or level of school you have completed? If currently enrolled in school, indicate the highest degree received.

- Less than a high school diploma
- High school diploma or equivalent (e.g. GED)
- Bachelor's or associate degree
- Master's degree, doctorate degree, or professional degree beyond bachelor's degree
- Prefer not to answer

Are you currently enrolled in any type of school?

- Yes
- No

Are you currently employed in any type of job or work? This could be self-employment or a regular volunteer responsibility. Do not include work at home that is not for pay.

- Yes
- No

**End**

Thank you very much for answering these questions!

If you have any comments for the research team about this survey, please provide them below. We appreciate your feedback.

Would you like to enter a drawing to win one of ten \$50 gift cards?

- Yes
- No

Please provide an email address to enter the drawing. The information you provide is private and will be treated confidentially. It is being used ONLY for the purposes of this drawing, and it will be deleted after gift cards are awarded.

Click "Submit" to end the survey.

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