

LINCOLN – APPLGATE  
INTERSECTION PROJECT

# Welcome

Thank you for your interest in the **Lincoln – Applegate Intersection Project.**

The purpose of today's meeting is to:

- Present the final design plans for the Lincoln – Applegate Intersection.
- Ask for information that will be helpful for MDT to know during construction.



## LINCOLN – APPELEGATE INTERSECTION PROJECT

# Project purpose and need

The Montana Department of Transportation evaluated intersection improvement options for improving the safety and traffic operations of the Applegate Drive and Lincoln Road intersection.

This project is necessary to increase safety and improve traffic operations at the intersection. From January 1, 2005 to December 31, 2015 there were 39 recorded crashes in this area, including one fatality and three incapacitating injury crashes.

279

LINCOLN RD

PROJECT AREA

N  
Map not  
to scale.

HELENA  
↓

APPELEGATE DR

MONTANA AVE

229

INTERSTATE  
15

GLASS DR

# Existing and Future Conditions

## Safety

- Between 2005 and 2015 a total of 39 crashes occurred at the intersection of Lincoln Road and Applegate Drive.
- Crashes included one fatality and three incapacitating injuries.

## Traffic

- In 2017, 3,940 vehicles traveled daily through the intersection.
- By 2040, the number of vehicles is projected to nearly double to 7,770 per day.

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APPLGATE DR

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# Design Evaluation

MDT evaluated a range of improvement options including a traffic signal, four-way stop, roundabout and no-action. The improvements were evaluated based on the following factors:

- Reduces the number of crashes.
- Reduces the severity of crashes.
- Improves traffic operations.
- Considers cost.
- Considers community input.
- Does it meet Federal Highway Administration justifications for a traffic signal?



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## Evaluation Results

Based on statewide safety data, a traffic analysis, and input from the community, MDT determined that the intersection would benefit most from a roundabout design.

EVALUATION CRITERIA	IMPROVEMENT OPTION			
	NO ACTION	FOUR-WAY STOP	*TRAFFIC SIGNAL	ROUNABOUT
Meets project purpose & need	No	Yes	Yes	Yes
Reduces number of crashes	N/A	Good	Fair	Excellent
Reduces severity of crashes	N/A	Good	Good	Excellent
Improves traffic operations	N/A	Fair	Good	Excellent
Considers cost	Excellent	Very Good	Good	Fair
Community input	Fair	Poor	Good	Excellent

\* The intersection **does not meet** the criteria established by the Federal Highway Administration to justify the installation of a traffic signal.

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# Preliminary roundabout design

The new intersection will be a single-lane roundabout. Design plans include:

- 12-foot travel lanes and 4-foot shoulders.
- A 18-foot wide “truck apron” which is a slightly raised surface that allows large trucks to make turns.
- Pedestrian crossings.
- LED lighting, curb, gutters and no-maintenance landscaping in the center median.
- Concrete pavement throughout the intersection.
- A 15 mph speed limit for traffic entering the roundabout.



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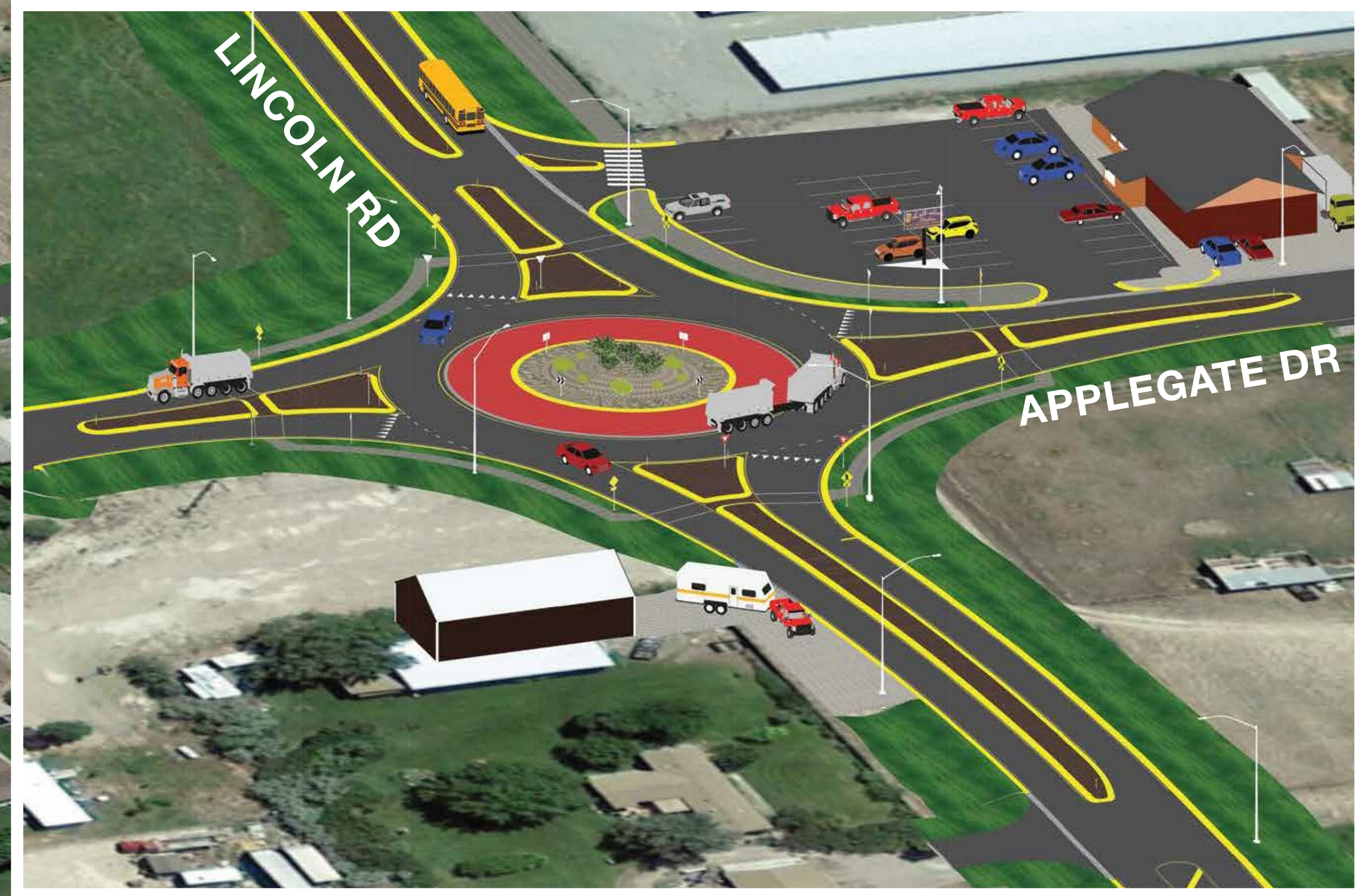
APPLGATE DR

MONTANA AVE

INTERSTATE 15

# Preliminary roundabout design

Lincoln Road – Applegate Drive Intersection



Detail



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# Project process and schedule

Project initiated and safety analysis performed	2017
Traffic and crash analysis completed	2017
Design options identified	2018
Design options presented to the public	2018
Complete environmental and technical analysis	2018 – 2019
Present design option to the public	Summer 2019
Present construction information to the public	2020
Construction anticipated (depending on funding)	2021



## LINCOLN – APPLGATE INTERSECTION PROJECT

# Improved safety and operations

Studies by the Insurance Institute for Highway Safety and the Federal Highway Administration show that roundabouts typically achieve:

- A 37 percent reduction in overall collisions.
- A 75 percent reduction in injury collisions.
- A 90 percent reduction in fatality collisions.
- A 40 percent reduction in pedestrian collisions.

Roundabouts also result in fewer delays, fewer stops, and less fuel consumption than stop lights and stop signs.



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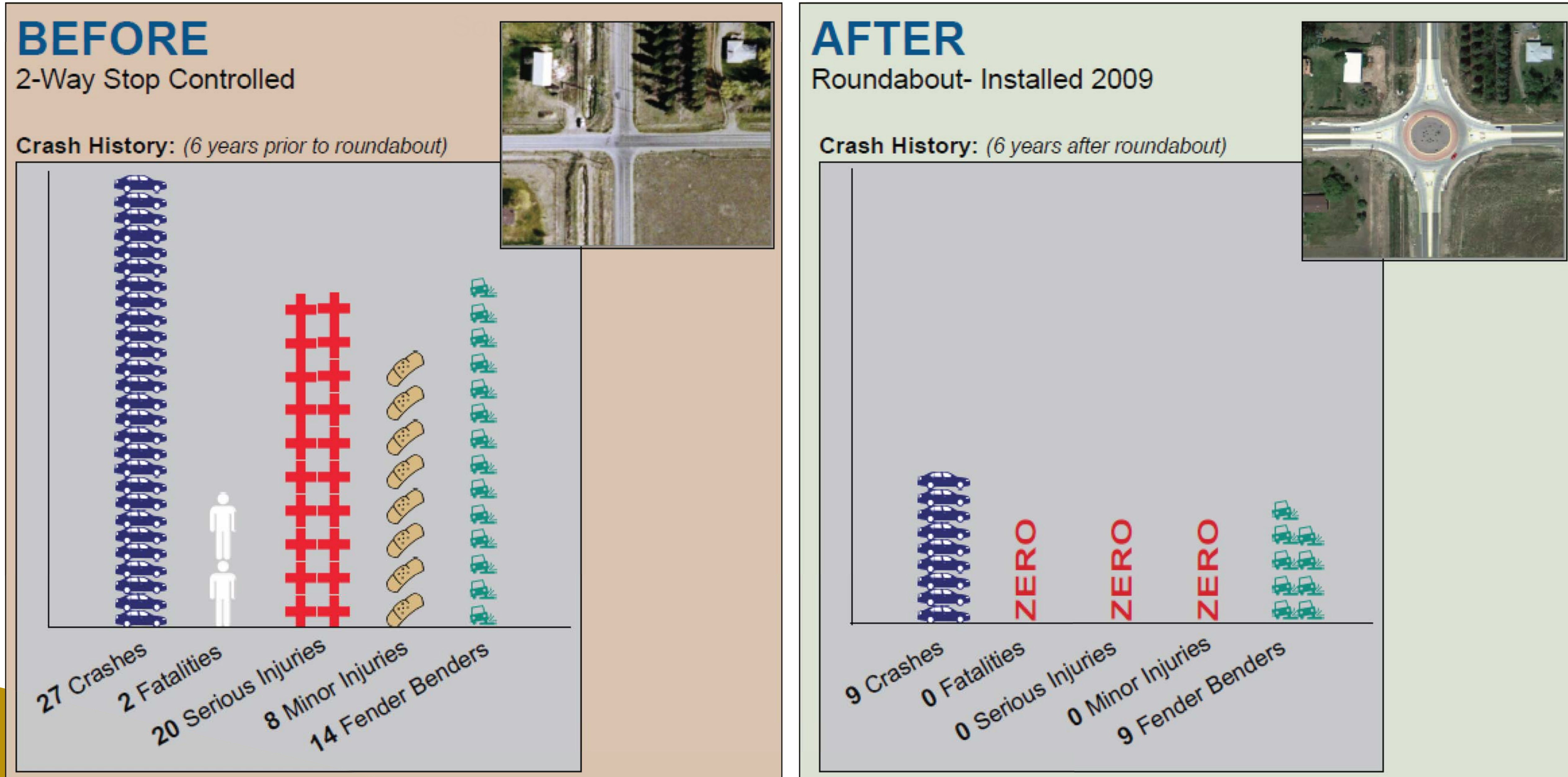
APPLGATE DR

MONTANA AVE

INTERSTATE 15

## How do roundabouts improve safety in Montana?

Canyon Ferry Road, Helena MT



Source: Montana DOT

# LINCOLN – APPELEGATE INTERSECTION PROJECT

## What's next?

Construction is anticipated to begin in 2021. Prior to construction beginning MDT will:

- Finalize the design plans.
- Purchase right-of-way.
- Develop construction plans.
- Present construction information to the public.

To stay up to date on the project, visit [www.mdt.mt.gov/pubinvolve/lincolnapplegate](http://www.mdt.mt.gov/pubinvolve/lincolnapplegate)



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# How to Stay Involved

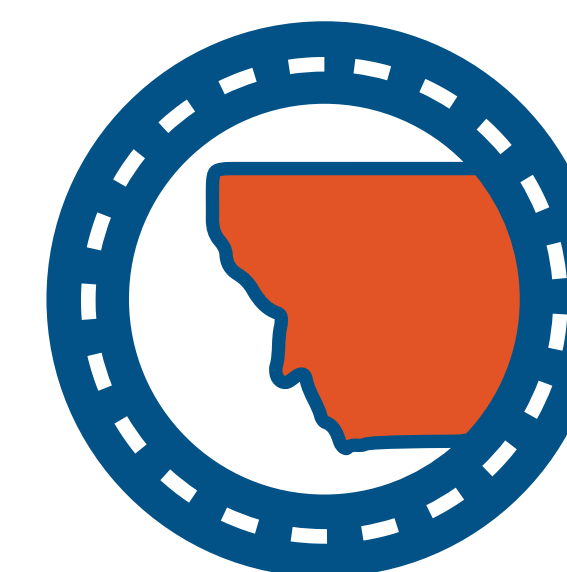
Thank you for attending today's meeting. The Montana Department of Transportation appreciates your interest and feedback.

For more information please:

**VISIT** [www.mdt.mt.gov/pubinvolve/lincolnapplegate](http://www.mdt.mt.gov/pubinvolve/lincolnapplegate)

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zero deaths · zero serious injuries

MONTANA DEPARTMENT  
OF TRANSPORTATION