



CONCRETE
ALBERTA

ROUNDABOUTS IMPROVE TRAFFIC FLOW & SAFETY



WHY RISK IT?



The Government of Alberta supports that modern roundabouts improve traffic flow and safety for motorists. In fact, when compared to other types of intersections, roundabouts provide a:

- 90% reduction in fatalities
- 80% reduction in injuries
- 40% reduction in the total number of collisions

A meta-analysis of 10 countries show that intersections that were converted into roundabouts demonstrated a:

- 72% reduction in fatal collisions
- 44% reduction in injuries

Another study found roundabouts decreased fatal crashes by 62%, fatalities by 87%, severe injuries by 58% and minor injuries by 59%.

The data and statistics across jurisdictions is clear, roundabouts reduce injuries, reduce fatal collisions, improve safety and save lives.



ROUNDABOUTS ARE DESIGNED TO SAVE LIVES

IMPROVED TRAFFIC FLOW AND SAFETY

Roundabouts are designed with a tight curve around the island to encourage lower speeds and improve efficiency with continuous traffic flow.

Roundabouts create fewer conflict points for pedestrians and motorists, reducing the potential for right-angle or T-bone collisions and eliminating head-on and high-speed collisions.

HIGH RISK INTERSECTION REDUCTION

Roundabouts eliminate the significant dangers associated with high-speed merging at traditional intersections in high traffic areas.

Implementing roundabouts can significantly reduce risks and improve safety where stop signs and traffic lights can fail in bad weather or during peak congestion.

LARGE TRUCK ACCOMMODATION

Roundabouts in Alberta have a truck apron around the centre island that provides extra room for semi-truck and multiple-trailer trucks. These are designed to support the weight of large trucks and help long vehicles turn safely through roundabouts.

References:

Public Health Ontario (2023) - Effectiveness of Engineering Interventions on Road Safety
Government of Alberta - All About Roundabouts