



**NORTH CAROLINA**  
Department of Transportation

# Reduced Conflict Intersections (RCI)

US 29 / Cannon Boulevard and Old Beatty Ford Road – Landis, NC

July 15<sup>th</sup>, 2024

Connecting people, products and places safely and efficiently with customer focus, accountability and environmental sensitivity to enhance the economy and vitality of North Carolina

## What is a Reduced Conflict Intersection?

A geometric design for four-lane highways that aims to improve safety and traffic flow by reducing the number of potential conflict points for drivers and pedestrians.

Known by several names – Superstreets, Median U-turns, J-turns, Michigan lefts, RCUTs



Visual Examples or Video

<https://www.youtube.com/watch?v=nzpdTdXDfRw>





US 64 at Parks Crossroads  
Church Road - Ramseur, NC

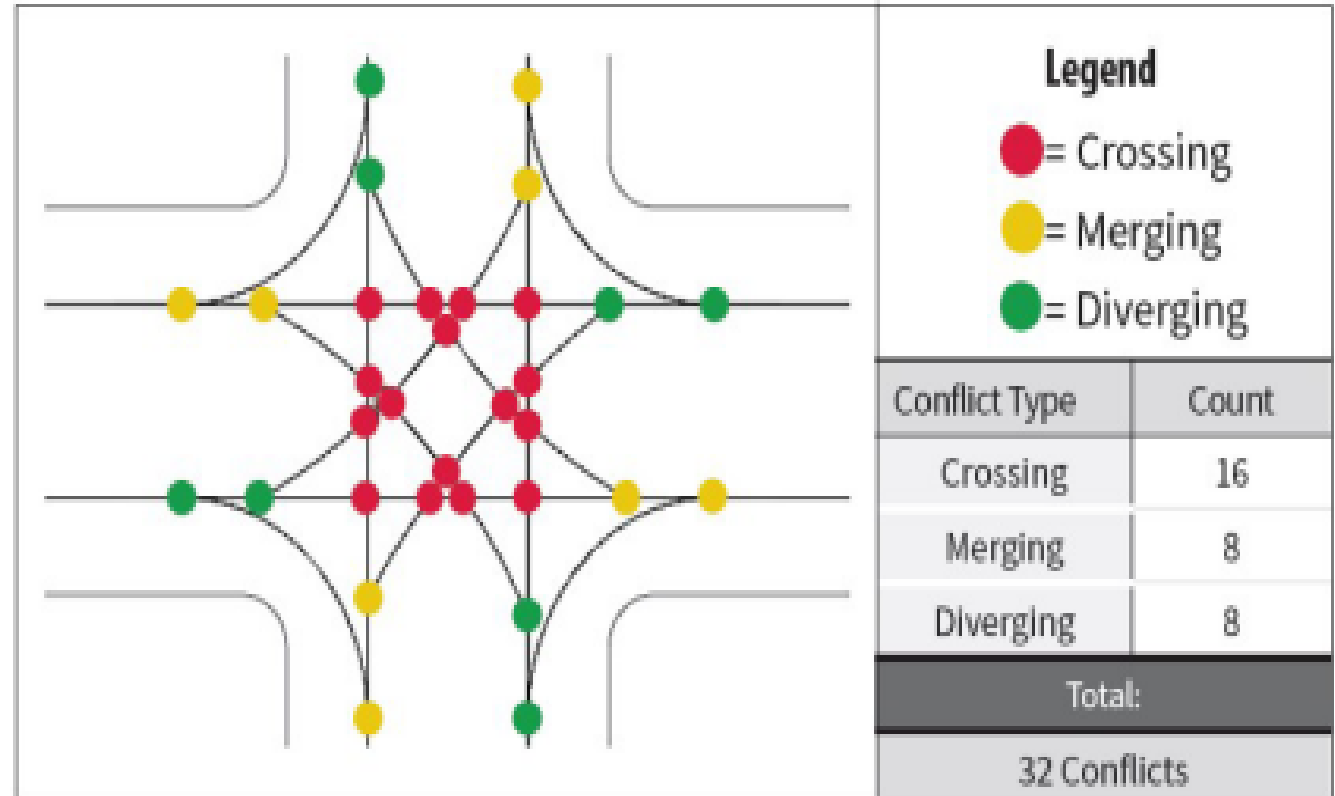


US 29 Concord Parkway near  
George W Liles Parkway

## Safety and Operation Benefits of an RCI

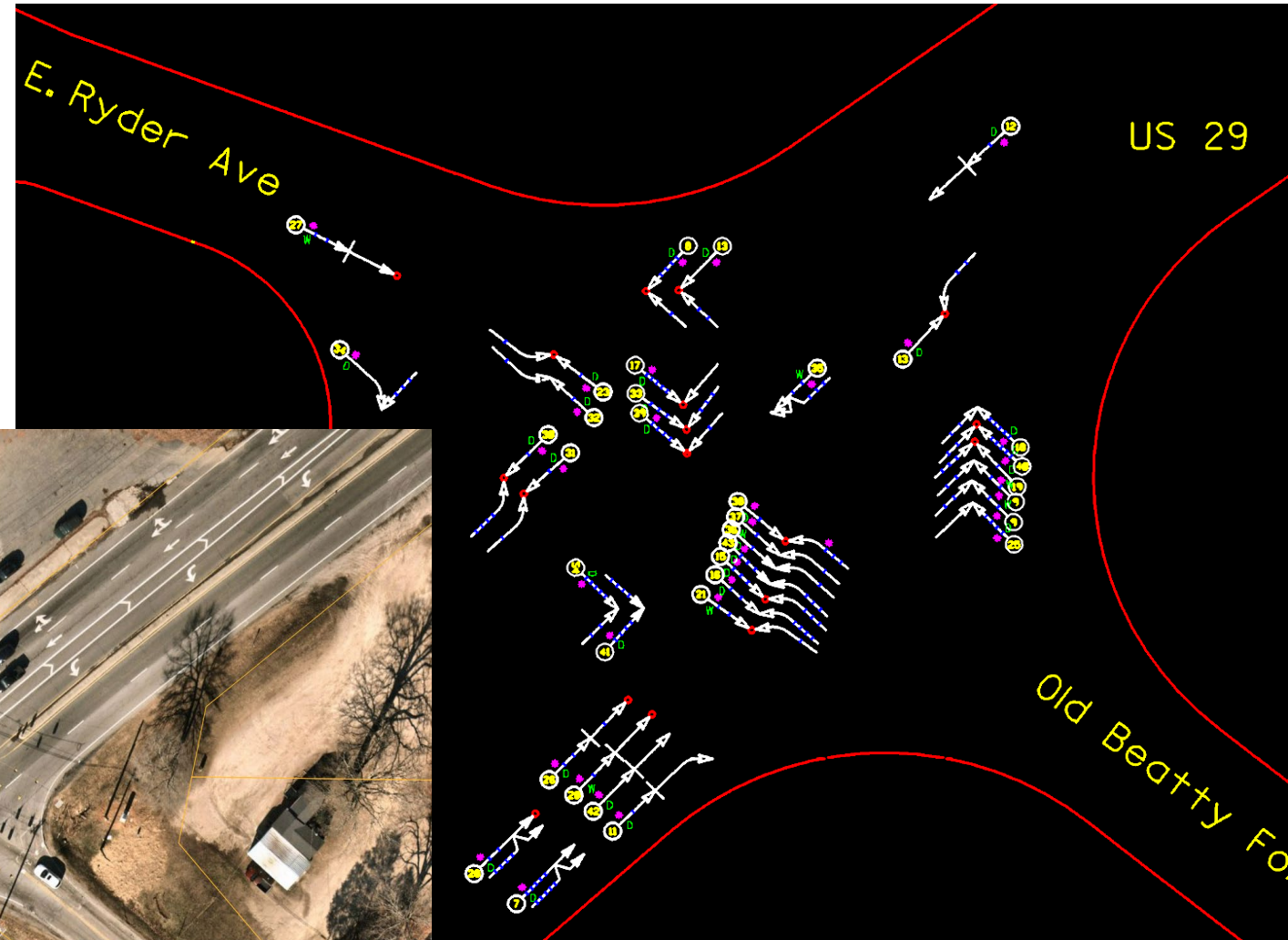
- Reduces conflicts points in conventional intersection from 32 to 14
- 93 RCI installed in North Carolina have shown a 59% reduction in crashes
- Works across large range of traffic volumes
- FHWA Study showed a 70% reduction in fatal crashes and 42% reduction in injury crashes

Conventional Intersection: Conflict Points



## US 29 – Ryder – Old Beatty Ford Road

- 36 accidents in a 5-year period (4/2019-4/2024)
- 22 Collisions could have been prevented by a RCI design
- Predominate crash pattern is angle accidents and left turn collisions



## Proposed Conceptual Sketch of RCI Design







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# Question?

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# Contact Us

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**Thank you!**

