

SAFERoad SOLUTIONS

EFFECTIVE ROAD DESIGNS EXPLAINED

Signalized Reduced Conflict U-Turn (RCUT)



A **Signalized Reduced Conflict U-Turn (RCUT)**

is an intersection design used on multi-lane divided highways. It consists of one main intersection and two nearby signalized median U-turn intersections. Signalization improves traffic flow for both mainline and side-street drivers.



BENEFITS

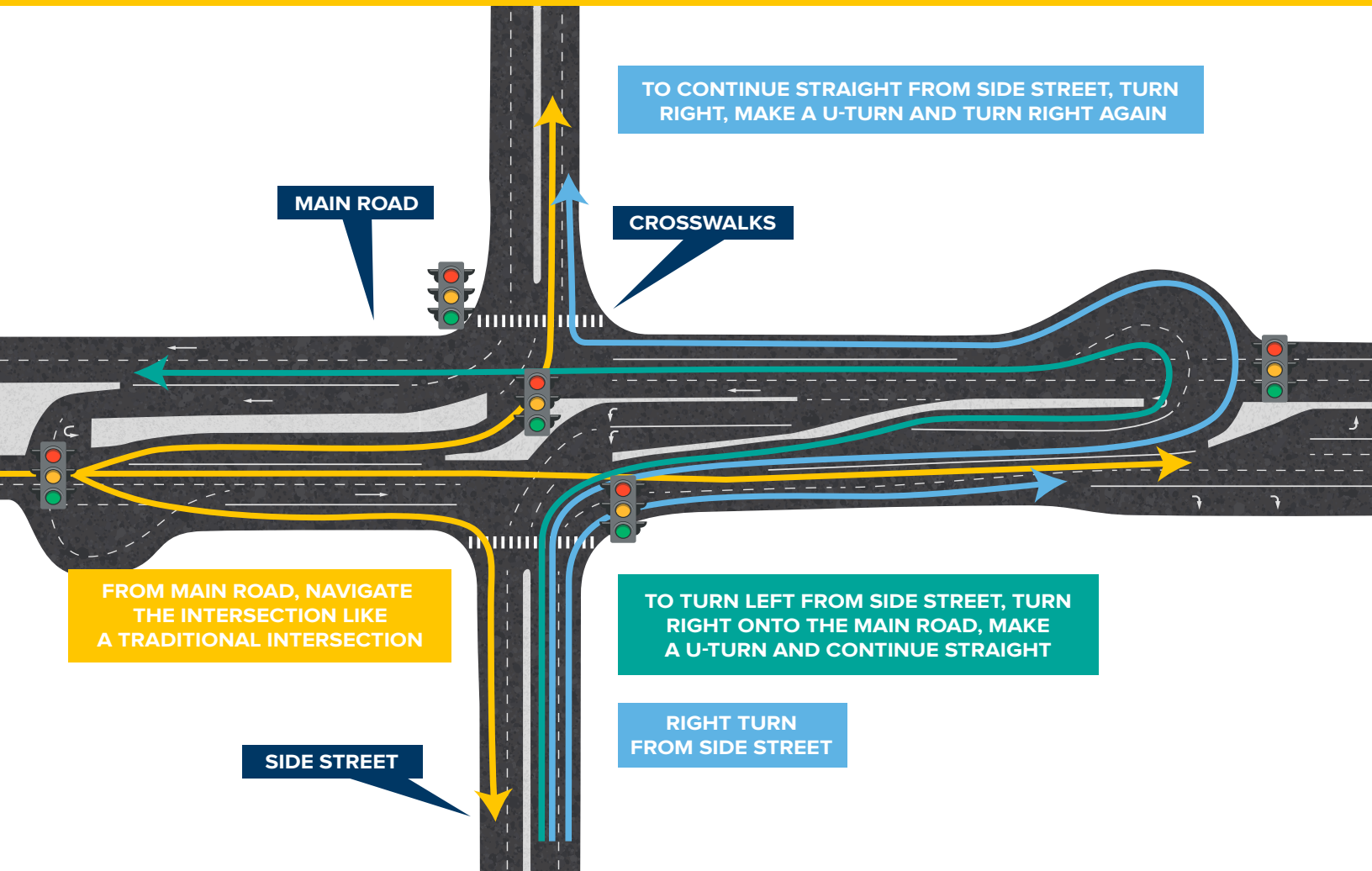
Enhanced safety – Signalized RCUTs reduce conflict points while also providing sufficient gaps for turning vehicles to safely make their movement when daily traffic is high, lowering the risk of severe crashes.

Improved efficiency – Coordinated signals streamline movements and reduce overall delays.

Increased capacity – Separating side-street and through movements allows smoother traffic flow on high-volume highways.

Supports all users – Signalized RCUTs provide safe crossings for pedestrians, bicyclists and motorists, making them effective in urban and suburban settings.

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WHAT TO KNOW ABOUT SIGNALIZED RCUTS

- All side street movements begin with a right turn.
- Side street left-turn and through traffic must turn right, then make a U-turn at a signalized median crossover to complete their movement.
- Traffic signals are placed at the main intersection and at U-turn crossovers.
- Signal timing can be coordinated to move large volumes of traffic smoothly along the highway.

WHEN TO USE A SIGNALIZED RCUT

Signalized RCUTs are effective in locations with:

- Multi-lane, median-divided highways
- High volumes of through and turning traffic on the main road
- Moderate to high side-street traffic where signals can improve traffic flow and efficiency
- Urban or suburban settings with pedestrian, bicycle, or transit activity