



Install a Right-Turn Lane along the Major Road

An auxiliary lane (or taper) exclusively for the deceleration and storage of right-turning vehicles.



Right-turn lanes can help alleviate rear-end crashes in rural areas such as these, where turns are less expected.



This urban right-turn lane has been installed along a stop-controlled approach.

Targeted Crash Types

- Rear-end (major road)

Problems Addressed

- Poor operational performance
- Excessive intersection conflicts

Conditions Addressed

- Crash history or observed conflicts between right-turning vehicles and following vehicles.
- Significant right-turn volume along major road.

Considerations

- Adding a lane may require additional right-of-way and utility relocation.
- Because the addition of a right-turn lane will increase the crossing distance for pedestrians, consider a refuge island when appropriate.
- Check that the sight triangle remains clear.
- Channelize the right turn for an increased turning radius with the option of creating a free-flowing right turn under yield control, though not recommended for areas with moderate to high pedestrian crossings.

Industry Standard

MUTCD
[Section 3B.20 Pavement Word, Symbol, and Arrow Markings](#)
AASHTO Green Book
Section 9.7: Auxiliary Lanes

Other Resources

[NCHRP 500 Volume 5: A Guide for Addressing Unsignalized Intersections](#)
[Intersection Safety: A Manual for Local Rural Road Owners, FHWA](#)
[Safety Effectiveness of Intersection Left- and Right-Turn Lanes, FHWA](#)

Select Examples

[Pleasant Ridge Rd. & Highland Grove Rd., Summerfield, NC](#)
[Fairbanks Dr. & Clarks Branch Dr., Raleigh, NC](#)

