



Modify the Horizontal and/or Vertical Alignment of an Intersection Approach

Horizontal or vertical realignment of at least one leg of the intersection to improve sight distance to and from the intersection.

Targeted Crash Types

- Right-angle
- Rear-end (major road)
- Rear-end (minor road)

Problems Addressed

- Inadequate visibility of intersection or intersection traffic control devices
- Inadequate intersection sight distance

Conditions Addressed

- Crash history related to poor intersection sight distance from the stop-controlled minor road.
- Crash history related to poor visibility of the intersection from the major or minor road approach.
- Horizontal curvature at or near the intersection inhibits intersection sight distance.
- Vertical curvature at or near the intersection inhibits intersection sight distance.

Considerations

- Owners of businesses and homes whose properties and access points will be affected by the realignment should be involved early in the decision-making process to address any concerns.
- Because this treatment is costly, consider lower-cost treatment alternatives first.
- Additional right-of-way may be required.

Industry Standard

AASHTO Green Book
Section 9.4.2: Alignment
Section 9.4.3: Profile

Other Resources

[Innovative Operational Safety Improvements at Unsignalized Intersections, Florida DOT](#)
[NCHRP Report 500 Volume 5: A Guide for Addressing Unsignalized Intersection Collisions](#)
[Intersection Safety: A Manual for Local Rural Road Owners, FHWA](#)

