

The minimum entrance radius allowed is 25 feet and the minimum exit radius allowed is 25 feet. Entrances into mixed use developments are designed to accommodate the largest design vehicle expected to use that entrance.

Where on-street parking is allowed near the commercial entrance, the *effective* radius for the entrance shall be used. Typically the effective radius will be the actual radius of the entrance curbing plus the width of the parking lane (for example 12.5 ft curb radius plus 8 ft wide parking lane resulting in an effective radius of 20.5 feet).

For subdivision streets, radii width and angle are specified in the Subdivision Street Design Guide in the Road Design Manual, Appendix B (1). See above web link.

Auxiliary Lanes and Tapers: When a land use will generate high traffic volumes, auxiliary lanes and tapers may be required. Auxiliary lanes and tapers shall be located within right-of-way. See Section 3 Turning Lanes for more information.

Angled Entrances: When the property owner desires to construct dual commercial entrances at other than 90 degrees to the centerline of the road, an entrance on the right side as approaching should not have less than a 60 degree angle with the centerline of the road.

Entrance Profile: All commercial entrances are built to a sidewalk elevation at the right-of-way line. Beyond the right-of-way line, the grade should not exceed 8 percent. Entrance configurations are shown starting at Figure 4-8.

Entrance Medians: Commercial entrance medians are used when two or more lanes are required for both the entering and the exiting movements at the entrance.

- Entrance medians shall have a minimum width of 4 feet.
- The minimum size of an entrance median island is 100 square feet.
- All curbing within the highway clear zone shall be in accordance with VDOT's *Road and Bridge Standards*, or as approved by the District *Engineer/Administrator or designee, and appropriate for the operational speeds of the facility.
- Non-regulatory signs shall not be placed in the portion of an entrance median located within the right-of-way, or within the highway clear zone, and shall not restrict intersection sight distances.
- An entrance median should not contain structures, signs, or landscaping which restrict sight distance.

Entrance Pedestrian Accommodation: Design criteria for sidewalks at commercial entrances (by providing pedestrian access routes across the entrance) are presented in diagram CG-11 in the *Road and Bridge Standards* at the following web link:

http://www.virginiadot.org/business/locdes/2008_standards_complete_sections.asp.