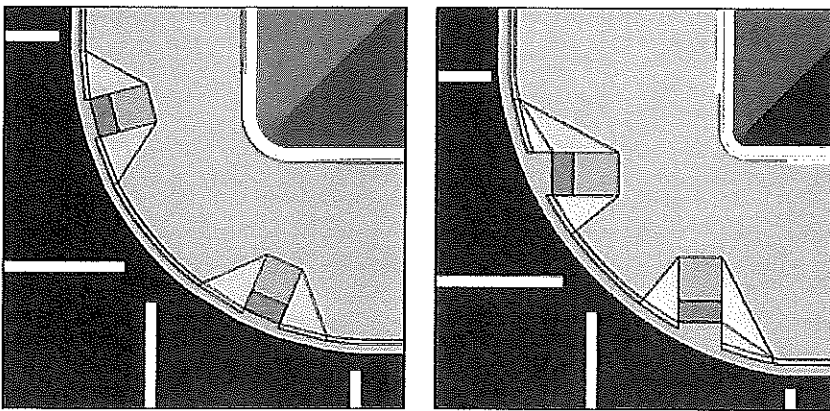
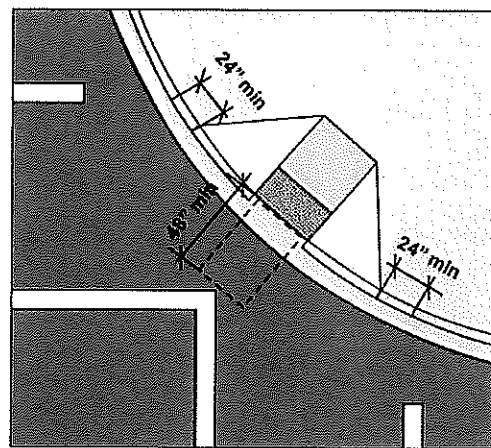


Curb ramps must be oriented so that the grade break is perpendicular to the curb ramp run to ensure a smooth transition to streets, including at corners with a wide radius. The curb ramp opening can be aligned with the curb line (left) or more directionally oriented to the crosswalk (right).

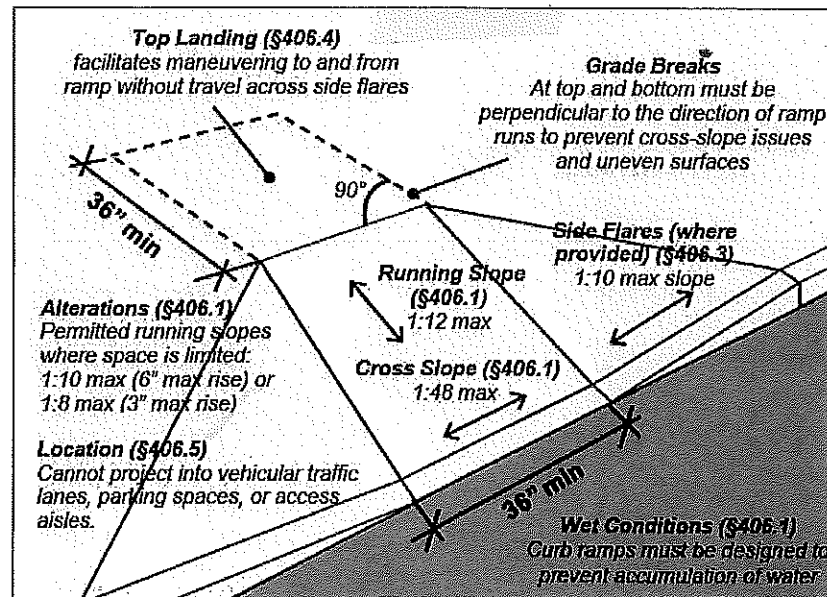


**Diagonal Curb Ramps [§406.6]**

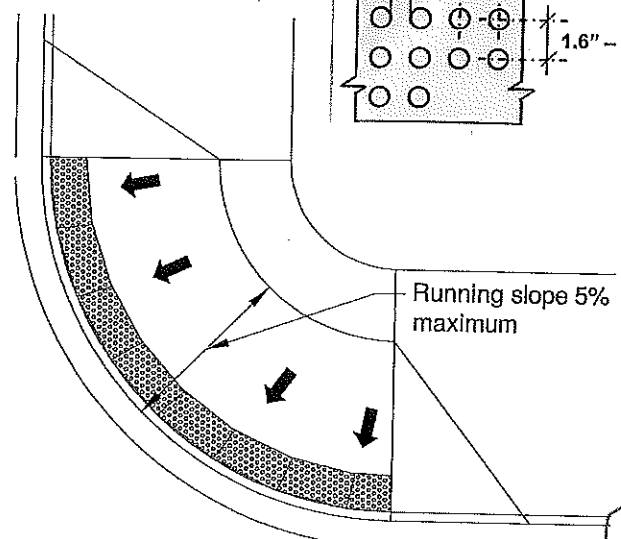
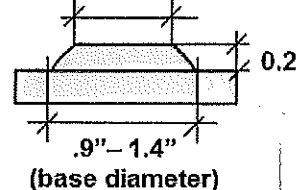
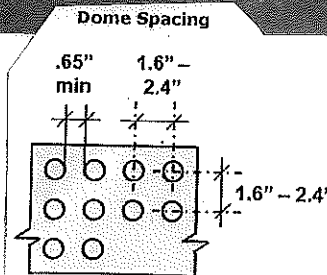
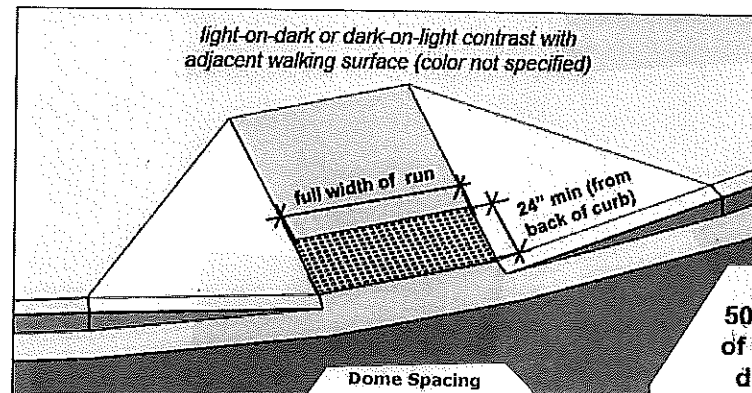
If curb ramps are placed diagonally at an intersection, it is important that clear space 48" long min. is available at the bottom that is outside active vehicle traffic lanes and is located within marked crossings, where provided. A segment of curb at least 24" long beyond flares must be provided on both sides of curb ramps with side flares within marked crossings. This curb segment provides an orienting cue at crossings for people with vision impairments.



**Recommendations:** Perpendicular curb ramps are preferred over diagonal curb ramps. Unless the radius is large enough, it can be difficult to locate the clear space at the bottom of diagonal curb ramps that is outside active traffic lanes. The orientation also can mislead people with vision impairments who use curb slopes as a cue to crossings.



**Transition to Street [§406.2]**

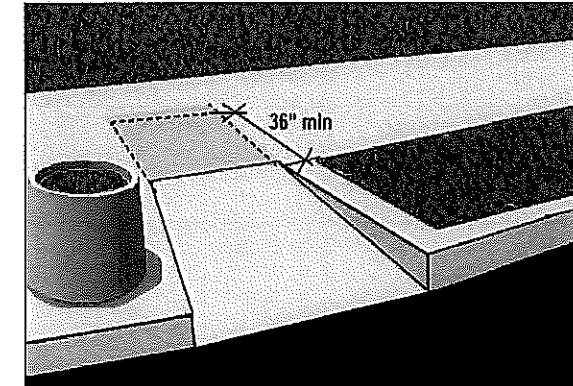


**Figure R304.4.1**  
**Running Slope**

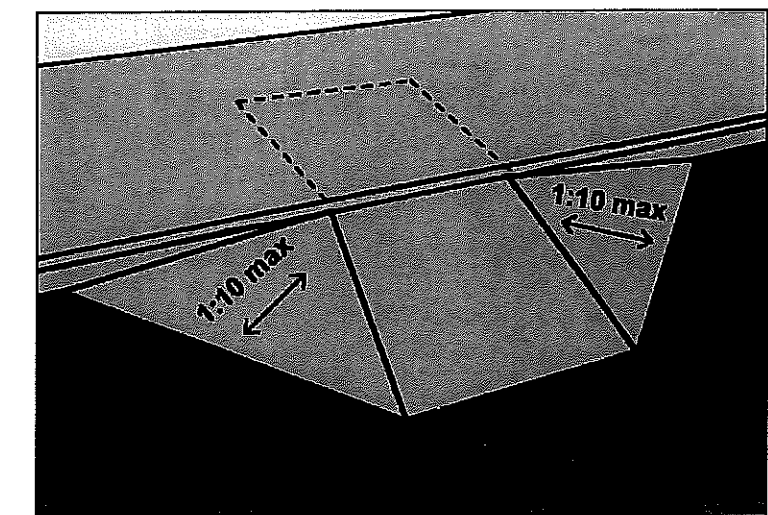
*This is a special design for a "blended transition." (5% slope versus the normal ramp slope of 1:12 max.)*

**Sides of Curb Ramps [§406.3]**

Curb ramps can have returned sides, but a top landing is required under all conditions to allow maneuvering to and from the run.



**Recommendations:** To prevent tripping hazards, curb ramps with returned sides should be used only where foot traffic across ramps is prevented or discouraged.



Side flares can be provided to prevent tripping hazards. Edge protection is not specified for curb ramps.

**Recommendations:** Provide edge protection along the sides of built-up curb ramps to prevent tipping hazards. Otherwise, consider a wider ramp width (48" min.) so that maneuvering does not occur near drop-offs.

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