

## Private and Low Volume Commercial Entrances

### 1. Low Volume Commercial Entrance

Except for the sight distance provision in item 4, the private entrance design standards below and in Figure 4-1 apply to low volume commercial entrances. Low volume commercial entrances shall be placed at locations that provide adequate stopping sight distance as shown in **Table 2-5 and Table 2-6**.\*

### 2. Curb and Gutter Private Entrances

Standard entrance gutter (Std. CG-9D; other options are CG-9A or CG-9B) shall be used with Std. CG-6 or CG-7 curb and gutter. A special design entrance gutter shall be submitted for approval when roll top curb is used.

### 3. Ditch Section Private Entrances

All private entrances shall be designed to serve no more than two individual lots. All private entrances shall be designed and constructed as shown in Figure 4-1. Entrance radius shall be 20' minimum. All entrance pipe culverts will be sized to accommodate the run-off expected from a 10-year frequency storm.

All private entrance grades shall start back of the shoulder line. If drainage is necessary, the ditch line may be moved back to provide 9 inches minimum cover over pipe. Entrances shall be at least 12' wide and shall be tied smoothly into the roadway surface. The entrance surface can be crusher run aggregate (gravel), asphalt, concrete, etc. and shall extend from the edge of the roadway to the right-of-way line.

Alternate methods for placing pipe culverts under the entrance (cut/fill details) are presented in the PE-1 design standard illustration in the VDOT Road and Bridge Standards, Section 600. The PE-1 standard is available on the VDOT web site at [http://www.virginiadot.org/business/locdes/2008\\_road\\_and\\_bridge\\_standards.asp](http://www.virginiadot.org/business/locdes/2008_road_and_bridge_standards.asp)

### 4. Private Entrance Sight Distance

The installation of a private entrance cannot be denied on the basis of sight distance. The Department will review the property owner's highway frontage and determine a useable location for the private entrance with the best possible sight distance. The property owner's preferred location can be denied by the Department if the location does not have the best possible sight distance and therefore is less safe for users of the entrance as well as for motorists on the intersecting highway. The Department may require the property owner to grade slopes, clear brush, remove trees, or conduct other similar efforts, or any combination of these, necessary to provide the safest possible means of ingress and egress that can be reasonably achieved.

### 5. Private Entrance Grades

In the interest of assuring an adequate, convenient, and safe access to public roads, VDOT recommends the grades along private entrances not exceed 10%.

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