TRAFFIC ENGINEERING
POLICY 64
RAISED MEDIAN DESIGN

GUIDELINES

The purpose of these guidelines is to provide a uniform procedure for the design of raised median.

Since raised median is a permanent improvement, its design should be conservative in nature. Pocket length design should factor in any projected increase in traffic. While striped pockets can easily be lengthened to address volume changes, reconstructing raised median can be very costly.

Intersection spacing and driveway locations may impact these guidelines. The City Traffic Engineer will provide design oversight to ensure proper traffic circulation.

Pocket Length:

The standard minimum pocket length for single left turn lanes shall be 75 feet. At arterial intersections left turn volumes will likely dictate a longer pocket. Traffic Engineering determines pocket length at these locations to be equal to 1 foot times the number of vehicles turning left in the peak hour. The maximum pocket length for a single left turn lane shall be 300 feet. Dual left turn lanes should be provided to accommodate additional vehicular storage.

Taper Length:

The standard minimum taper length for single left turn lanes shall be 90 feet. When insufficient distance is available 60 feet is acceptable. This is in conformance with City of Garden Grove Standard Plan B-132. Landscape impacts shall not be a determining factor when designing tapers.

The standard minimum taper length for dual left turn lanes shall be 150 feet.

Raised Median Nose Location/Flares:

Raised median noses shall be located 15 feet back from the line extending through ½ delta of the curb returns of the intersecting street. This is in conformance with City of Garden Grove Standard Plan B-128. Curb flares at nose locations shall be constructed per the following:

- 4-foot medians – no flare required
- 10-foot medians – construct a 40-foot flare
- 14-foot medians – construct a 60-foot flare

Orange County PF&RD Standard Plan 141-0-OC may be used in design of these flares.