



mesa·az Transportation Advisory Board Report

Date: September 15, 2015
To: Transportation Advisory Board
From: Sabine Ellis, City Traffic Engineer
Subject: Speed Limit Change - Signal Butte Road from Baseline Road to Guadalupe Road

Purpose and Recommendation

As part of the Mulberry development, which is located on the northwest corner of Signal Butte Road and Guadalupe Road, the west side of Signal Butte Road will be widened along the project's frontage to provide a fully improved, 88-foot wide arterial street from Baseline Road to Guadalupe Road.

Staff recommends increasing the speed limit from 40 mph to 45 mph on Signal Butte Road from Baseline Road to Guadalupe Road. See Figure 1 for a location map.

Background

The typical speed limit for similar arterial streets within the City of Mesa is 45 mph. However, Signal Butte Road from Baseline Road to Elliot Road is in various stages of development, alternating between the ultimate, fully improved cross section and a half-built cross section. Due to the roadway geometry, some of the shifting lane tapers are based on a 40 mph design speed. Thus, the posted speed limit on Signal Butte Road between Baseline Road and Elliot Road is currently 40 mph. The Mulberry development will widen the west side of Signal Butte Road to the ultimate 88-foot wide cross section along its frontage, which allows for a redesign of the shifting tapers between Baseline Road and Guadalupe Road per Mesa's standard practice to a design speed that equals the desired posted speed limit plus 5 mph, i.e., 50 mph. Pedestrian traffic is low and adjacent land uses are residential and commercial in nature, with no homes fronting Signal Butte Road.

Alternatives

One alternative is to make no changes to the posted speed limit.

Fiscal Impact

All necessary signing changes will be addressed with the construction of the Mulberry development, resulting in no fiscal impact.



E BASELINE RD

45 MPH EXISTING
SPEED LIMIT

S SIGNAL BUTTE RD

45 MPH PROPOSED SPEED LIMIT

MULBERRY
DEVELOPMENT

E GUADALUPE RD

40 MPH EXISTING
SPEED LIMIT