



Interoffice Memorandum

July 14, 2020

TO: Mayor Jerry L. Demings  
and Board of County Commissioners

FROM: Joseph C. Kunkel, P.E., Director, Public Works Department

CONTACT PERSON: Humberto L. Castellero, P.E., PTOE, Manager  
Traffic Engineering Division

PHONE NUMBER: (407) 836-7891

SUBJ: **Installation of a Raised Crosswalk for a School Crossing on Sussex Drive  
at Radnor Avenue for Bonneville Elementary School**

Traffic Engineering staff recently conducted evaluations due to complaints of the speed of vehicles approaching the designated school crossing listed below. This location already meets the County's criteria for a marked crossing with a crossing guard during school hours due to the high volumes of children crossing. The Orange County Sheriff's Office and School Crossing Guard Office have also expressed concern for the safety of pedestrians at this location;

- Sussex Drive at Radnor Avenue for Bonneville Elementary School
  - Average Annual Daily Traffic (AADT) 6,090

The evaluation concluded that the installation of a raised crosswalk would provide a visual and physical cue to effectively reduce vehicle speeds and provide better pedestrian conspicuity. This roadway is in close proximity to Bonneville Elementary School, and the raised crosswalk would make the pedestrian more prominent in the driver's field of vision. Under the current Traffic Calming policy raised pedestrian crosswalks are not included. They are a vertical deflection similar to that of a speed table. The speed table volume requirements currently adopted by Orange County allows for a maximum AADT volume of 3,000 vehicles per day (vpd), the Federal Highway Administration has adopted guidelines that allow for AADT's of up to 9,000 vpd. Traffic Engineering would like to follow these federal guidelines in order to improve pedestrian crossing locations and reduce crashes. Additionally, the approach ramp would reduce vehicle speeds and improve motorist yielding to pedestrians within the elevated crosswalk. The project is being funded through the Traffic Calming Program.

Staff recommends that the Board approve the installation of a raised crosswalk for the school crossing listed above.

**Action Requested: Approval to install a raised crosswalk on Sussex Drive at Radnor Avenue for Bonneville Elementary School. District 5.**

JCK/HLC/CPC/wm

Attachments



# Radnor Ave Consent Agenda District Map



**District 5: Commissioner Emily Bonilla**

Sussex Dr & Radnor Ave

 Speed Table Typ. 22' Wide

