

# Orange County Transportation Planning

- Presentation on Williamsburg Area Study by Scott Nager



# Project Location

The limits of the study are on Orangewood Blvd from S.R. 528 to Deer Creek Drive, Central Florida Parkway from the utility easement to Shingle Creek, and Gateway Avenue from Central Florida Parkway to Gifford Road.



# Chief Complaints

- Cut thru traffic and people using the local streets as a major road.
- Waiting at traffic lights too long.
- Pedestrian feasibility (feeling safe while walking on the sidewalk)
- Lighting at night
- Speeding drivers
- Vehicles parking on the Right of Way

# What is Orange County Doing About These Complaints?

The Transportation Planning Department is in charge of an areawide study that will evaluate the following:

1. Identify high crash locations of crashes and speeding
2. Identify cut-through traffic patterns and volumes.
3. Identify operational deficiencies within the Williamsburg area
4. Make recommendations accordingly to limit crashes, speeding, cut through traffic, and improve traffic operations.

# What Does the Scope of this Study Entail?

The scope of the study consists of the following measures to objectively identify the various complaints that were listed.

Data collection – collection of turning movement counts, speed data, and other pertinent County Data from Orange County Traffic Engineering.

Existing Conditions Diagram - A condition diagram showing the existing signs, signals, overhead utilities, and other obstructions will be shown on an aerial using CAD.

Cut through traffic surveys – Origin and Destination (O&D) data will be collected from Streetlight Data Inc. to quantify the amount of cut-through traffic in the area.

# What Does the Scope of this Study Entail?

Crash data and Collision Diagram – crash data obtained from Signal 4 will be collected for the last 5 years within the study area and will be drawn in CAD overlaid on the existing conditions diagram. This will include fatal crashes, pedestrian and bike crashes, and crashes with major injuries.

Qualitative Assessment – A licensed professional engineer shall go out and do a PM peak visit to observe driver behavior, safety concerns, and any maintenance items that are needing repair.

Synchro Analysis – A Synchro Analysis will be performed on the major arteries within the Williamsburg area to quantify traffic operations in the area.

# What Does the Scope of this Study Entail?

Recommendations – Based on the data collected, the analysis performed, and the field visit, recommendations will be made to Orange County to help alleviate the complaints being made by the residents in the area.

Benefit Cost Analysis – The recommendations made will have a benefit cost analysis performed to ensure that the County and residents will receive a return on the investments being made to improve the area.

Net Present Value Analysis – This analysis will show how much it will cost today to build and maintain these improvements over the service life they have.

Questions?