



Interoffice Memorandum

October 18, 2019

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

FROM: Diana M. Almodovar, P.E., Interim Director, Public Works Department

CONTACT PERSON: Christine N. Lofye, P. E., Manager *CL*
Traffic Engineering Division

PHONE NUMBER: (407) 836-7891

SUBJ: **Establishment of a Multi-way Stop Condition at the Intersection of Perkins Road and Gondola Drive**

A concerned citizen requested that the Traffic Engineering Division review the traffic control at the intersection of Perkins Road and Gondola Drive.

Traffic Engineering conducted a multi-way stop study, which consisted of an evaluation of existing field conditions including critical approach speed, sight distance, traffic volumes, and crash history. Current traffic conditions meet the minimum vehicular volume warrants. To improve intersection operations and reduce delay on Gondola Drive, staff recommends the existing two-way stop control be converted to a multi-way stop control.

Staff recommends that the Board approve the establishment of a multi-way stop condition at Perkins Road and Gondola Drive.

Action Requested: Approval of multi-way stop installation at the intersection of Perkins Road and Gondola Drive. District 3.

MVM/CNL/HC

Attachments



Perkins Road Consent Agenda Location Map



 "Stop" Signs
District 3: Commissioner Mayra Uribe

Orange County Traffic Engineering Multi-way Stop Warrant Data Sheet

Major Street: Perkins Road
Minor: Gondola Drive

Speed Limit: 25
Speed Limit: 30

Prepared by Mutasem Jardaneh
Approved by: H. Castillero P.E.
Date: 1-Oct-19

Count Data

Count	Time	Total Major	Total Minor	Minor to Major
9	8-9	331	277	0.8
8	7-8	253	212	0.8
18	17-18	439	211	0.5
16	15-16	454	203	0.4
17	16-17	401	201	0.5
15	14-15	285	200	0.7
19	18-19	192	164	0.9
10	9-10	187	156	0.8

Warrant C Minimum Volume

Count	Time	Total Major (300 VPH) (210) ¹	Total Minor (200 VPH) (140) ¹	Delay (30 s/veh)
9	8-9	331	277	
8	7-8	253	212	
18	17-18	439	211	
16	15-16	454	203	
17	16-17	401	201	
15	14-15	285	200	
19	18-19	192	164	
10	9-10	187	156	

Average: 318 203

1= This is for approach speeds greater than 40 mph.

Warrant D Minimum Volume 80%

Crashes ≥ 4 per Year : Not Met

Count	Time	Total Major (240 VPH)	Total Minor (160 VPH)
9	8-9	331	277
8	7-8	253	212
18	17-18	439	211
16	15-16	454	203
17	16-17	401	201
15	14-15	285	200
19	18-19	192	164
10	9-10	187	156

Average: 318 203

Notes:

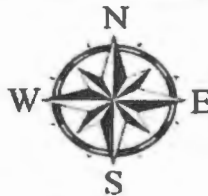
1. Volume warrant met
2. Crash warrant not met

Warrant B Crash History

Interval: 02/02/2014-01/01/2019

Year	Total
2014	0
2015	0
2016	0
2017	0
2018	1

Crashes ≥ 5 per Year
Met?: NO



Perkins Road at Gondola Drive Location Map

