



June 27, 2012

Don Craig, Planning Director  
City of Key West  
3140 Flagler Avenue  
Key West, FL, 33040

**Re: City of Key West Carrying Capacity Study**

Dear Mr. Craig,

Calvin, Giordano & Associates, Inc. completed the City of Key West Carrying Capacity Study in December, 2011. The Study evaluated traffic conditions for over 15 corridors and 25 intersections throughout the City. The Four distinct methodologies listed below were utilized to determine how well the studied corridors and intersections were performing:

1. FDOT Generalized Level of Service (LOS) Tables
2. Highway Capacity Manual (HCM) V/C Ratios
3. HCM Average Speed
4. VISSIM Micro-Simulation

Each of the methodologies compared traffic operations to industry-standard capacity thresholds and/or Level of Service thresholds identified in the City of Key West Comprehensive Plan. The results of the analysis demonstrated that several roadways and intersections were operating below acceptable standards. The failing roadways and intersections for each of the four methodologies are shown on Table 1.

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Table 1  
Failing Roadways and Intersections

METHODOLOGY	OVER CAPACITY CORRIDORS
<b>FDOT Generalized LOS Tables</b>	Duval Street
	Eaton Street
	Palm Avenue
	N. Roosevelt Boulevard
	Truman Avenue
<b>Highway Capacity Manual (HCM) Volume/Capacity Ratio</b>	Duval Street
	N. Roosevelt Boulevard
	Truman Avenue
	Whitehead Street
<b>HCM Average Speed</b>	Duval Street
	Whitehead Street
	Truman Avenue
	N. Roosevelt Boulevard
	Palm Avenue/1st Street/Bertha Street
METHODOLOGY	OVER CAPACITY INTERSECTIONS
<b>VISSIM Micro-Simulation</b>	Whitehead Street/Southard Street
	Whitehead Street/Truman Avenue
	Duval Street/Truman Avenue
	Simonton Street/Truman Avenue
	Palm Avenue (1st Street)/N. Roosevelt Boulevard
	N. Roosevelt Boulevard/Overseas Highway

As indicated on Table 1, it was determined that numerous roadway corridors and intersections were operating below acceptable standards, as defined in the study. It is therefore recommended that the introduction of new traffic generators be limited until such time that capacity improvements can be implemented or traffic conditions materially change from those measured at the time of the study.

Sincerely,

**CALVIN, GIORDANO & ASSOCIATES, INC.**



Jeffery A. Maxwell, P.E., PTOE  
Associate, Traffic Engineering