

TRAFFIC DIRECTIONAL EVALUATION

Prepared for:
City of Key West



Calva, Giordano & Associates, Inc.
RECEPTIONAL SOLUTIONS®

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DUNCAN STREET

1.0 INTRODUCTION

Calvin, Giordano and Associates Inc. was retained by the City of Key West to complete a qualitative assessment of traffic conditions along Duncan Street from White Street to George Street. The assessment was initiated as a result of concerns about the suitability of the roadway width to accommodate two-way traffic. This report summarizes the field observations and potential alternatives to mitigate any potential safety and operational issues identified in the field. It should be noted that data was not collected as part of this effort; any recommendations made as part of this report are based on engineering judgement and observations made in the field.

2.0 EXISTING CONDITIONS

Duncan Street is a two-lane undivided local road with a posted speed limit of 25 MPH. Between the limits of this study, the width of the travelway along Duncan Street varies between 15' 7" and 21'; the different segment widths along Duncan Street are presented in **Table 1**.

Table 1: Pavement Width along Duncan Street

Duncan Street		
<i>From</i>	<i>To</i>	<i>Pavement Width</i>
White Street	Georgia Street	15' 7"
Georgia Street	Florida Street	15' 8"
Florida Street	Pearl Street	19' 3"
Pearl Street	Leon Street (West Leg)	16' 2"
Leon Street (West Leg)	Thompson Street (East Leg)	21' 0"
Thompson Street (East Leg)	George Street	20' 0"

3.0 FIELD OBSERVATIONS

A field review was conducted at the study location on Monday, May 11, 2015 along Duncan Street. During the field review, several discrepancies were noted concerning the relatively narrow travel way and fluctuations in pavement width throughout the corridor. Some of the observations made in the field and pictures taken during the field review are provided below.

**Field measurements at
Duncan Street and White
Street.**

(Looking West)

Total Pavement width:

15 feet 7 inches



**Reduction in pavement
width at**

Leon Street

**(South leg, looking East
towards Pearl Street)**





Duncan Street from White Street to George Street

**Sight Distances Restrictions at
Duncan Street and Florida Street**



4.0 CONCLUSIONS AND RECOMMENDATIONS

Calvin, Giordano and Associates Inc. was retained by the City of Key West to complete a qualitative assessment of traffic conditions along Duncan Street from White Street to George Street. The assessment was initiated as a result of concerns about the suitability of the roadway width to accommodate two-way traffic.

Based on the measurements and observations made in the field, the following recommendations are made:

- Convert Duncan Street to a one-way street in the eastbound direction. The decision for Duncan Street to flow eastbound was based on noted sight distance restrictions at the intersection of Duncan Street and White Street for westbound vehicles.
- Along the new one way street corridor, consider providing a designated 5 foot bike lane to accommodate bicycles along the roadway segment