



# Indian River Drive Traffic Safety Improvements



**City of Ft. Pierce & St. Lucie County  
Joint Board Meeting, May 6, 2021**



# Traffic Safety Project

The Kimley-Horn Study for Indian River Drive provides recommended strategies that can improve traffic safety along the corridor. The County is proposing to implement the recommended strategies in a phased approach, using the approved funding.

The Phase 1 Project will involve implementing the safety strategies along the corridor between Walton Road Intersection and Midway Road Intersection. This 6.2 mile segment was chosen as Phase 1 because of the field measured speed data in the Kimley-Horn Study.

The Town Hall Meeting was held on Tuesday, April 27th:

1. Residents spoke against the raised audible pavement markings.
2. Residents did not support rumble strips at approaches to the stop signs.
3. Residents want increased law enforcement action from the City and the County.



# Proposed Project Budget

Currently the County has money budgeted to implement the Phase 1 Project only. Subsequent phases will involve extending the safety improvements further north along the corridor, up to the Citrus Avenue Bridge in the City of Ft. Pierce. The County would like the City to participate in shared funding for the project improvements.

The Board authorized additional funding at the February 23, 2021 BOCC meeting in the amount of \$500,000, to increase the total Phase 1 Project budget to \$750,000. Staff is recommending completion of the Phase 1 Project before moving forward with the next phases. The design plans are at 60% complete and cost estimates are pending final decisions about design elements.

# Existing Roadway Characteristics

Elements within recovery area





# Proposed Traffic Safety Strategies

- Radar Speed Feedback Signs
- Traverse Pavement Markings
- Vehicular Weight Restriction Signs (Trucks)
- Raised Audible Pavement Markings - **NO**
- Raised Rumble Strips - **NO**

# Radar Speed Feedback Signs

## What is it?



## How does it work?

*Actively alerts speeding drivers to their current speeds along with posted speed limit sign*

## What are the benefits?

- Has been shown to be effective in reducing speeding and thus accident rates*
- Aids in more effective targeted enforcement*

# Traverse Pavement Markings

What is it?



A road safety feature consisting of a series of parallel bars on the inside edge of the travel lane lines.



# Traverse Pavement Markings

## How does it work?

*Series of markings intended to create the impression that the vehicle's speed is increasing to trigger driver's awareness to slow down*

## What are the benefits?

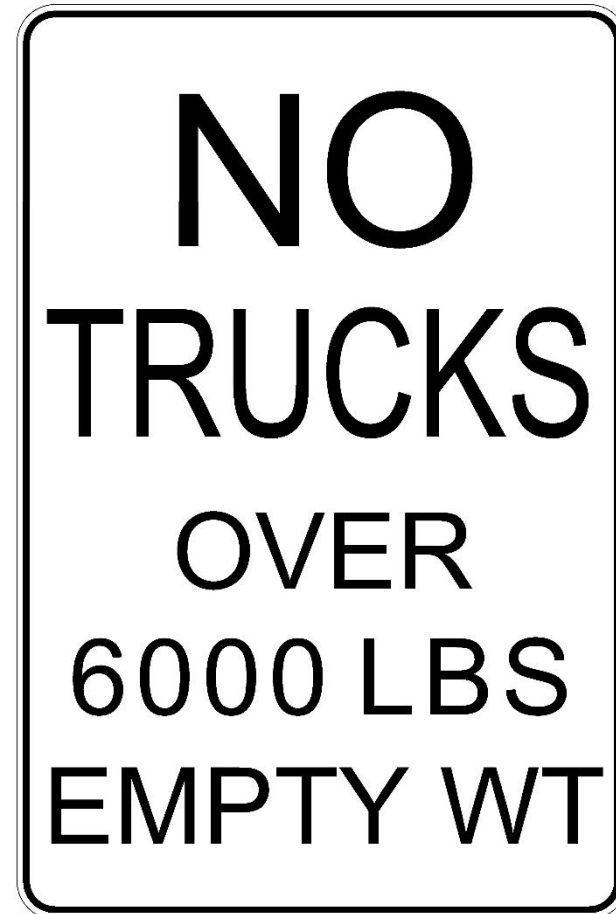
*Serves to notify drivers of changing geometric conditions (ie. horizontal curves)*



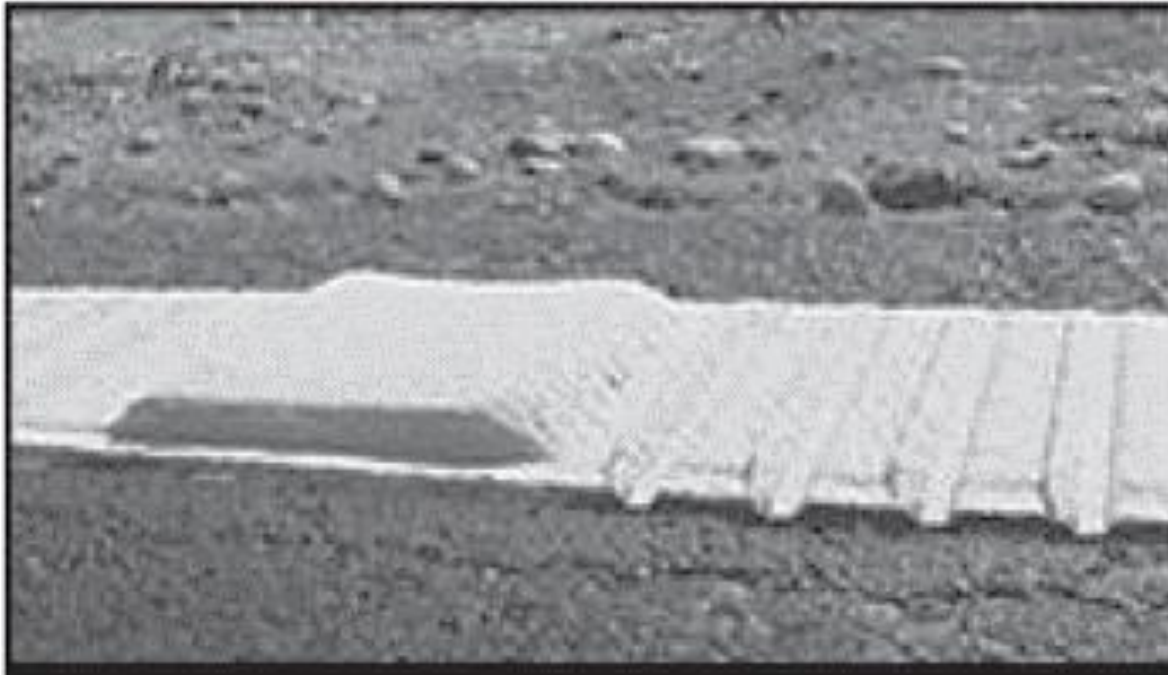
# Vehicular Weight Restrictions

## St. Lucie County Code of Ordinances – Section 46-3 Truck Weight Limits

*South Indian River Drive from Citrus Avenue to the South St. Lucie County Line, truck traffic limited to vehicles with an empty weight of no more than 6,000 pounds, excluding motor homes or recreational vehicles, delivery vehicles and school buses.*



# Raised Audible Pavement Markings



Raised Audible Pavement Markings



Placed Along Outside Edge of Pavement  
and Centerline Stripes

# Existing Roadway Characteristics

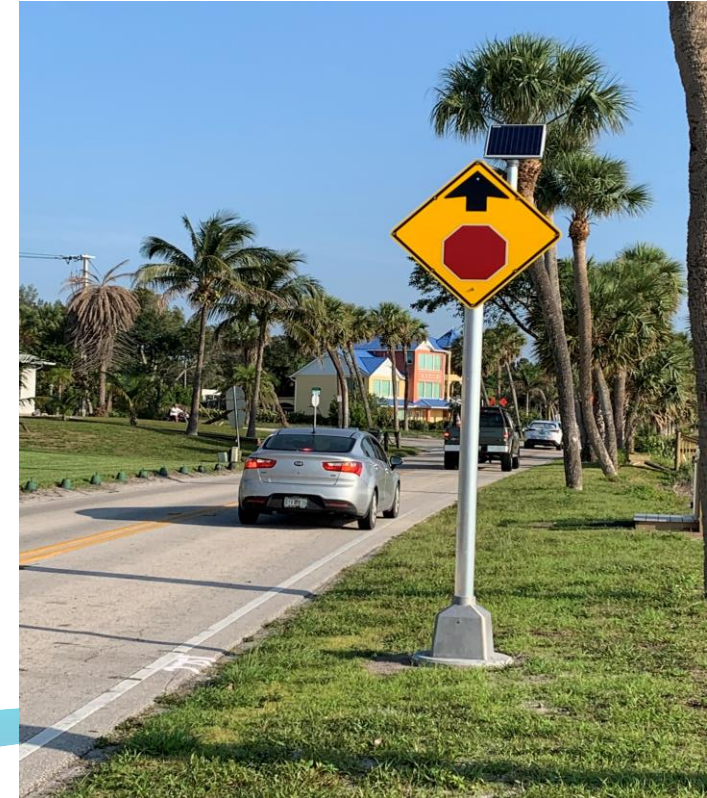
## Drop-Off Conditions



# Raised Rumble Strips - at Stop Sign Approaches

## What is it?

*A road safety feature consisting of a series of parallel traffic stripes which are spaced 5 feet apart, each stripe is approximately 0.5" thickness*



# “SkyCop” Video Surveillance



## How does it work?

*Provides real time video surveillance of the vehicular traffic activities along the roadway corridor. Provides data to local law enforcement Agencies.*

## What are the benefits?

- Has been shown to be effective in reducing speeding and thus accident rates*
- Aids in more effective targeted law enforcement*