



## Crosswalk Countdown Head Improvement Project

### BACKGROUND:

The City of Jacksonville's priority is to improve bicycle and pedestrian safety. Currently, Jacksonville has the highest rate of bicycle and pedestrian fatalities among the 50 most populous cities in the country, according to the National Alliance for Biking and Walking. Jacksonville is ranked 4<sup>th</sup> in the nation for highest pedestrian deaths, according to National Complete Streets Coalition. Jacksonville has also been identified by the Federal Highway Administration as a Focus City. In 2016, there were a total of 650 bicycle or pedestrian crashes in Jacksonville. Of these crashes, 39 were fatal and 514 resulted in an injury.

Countdown Pedestrian Signal Indication:



### PROJECT DESCRIPTION:

This project will install approximately 1,924 new countdown heads at 292 state intersections. The city will receive the countdown heads from the Florida Department of Transportation through the Federal Highway Administration. Over 80% of the bicycle and pedestrian crashes in Duval County are on state roads and as a result the City will begin installation of the countdown heads on 292 state intersections.

Typical Pedestrian Signal Indications:



### BENEFITS:

According to the FHWA Desktop Reference for Crash Reduction Factors, replacing existing WALK/DON'T WALK signals with countdown signal heads will help reduce pedestrian crashes by 25 percent. Currently, pedestrians do not know the length of time remaining for the flashing "Don't Walk" signal, which results in pedestrian fatalities and injuries. The new countdown heads will display a countdown of remaining pedestrian crossing time in seconds, which will communicate how long a pedestrian has to cross the road and a "Don't Walk" indication will be illuminated to indicate when a pedestrian should not cross the road.

**APPROPRIATION REQUEST: \$631,072 (INSTALLATION)**

Total Project Cost: \$631,072

1/24/2017





## Pedestrian and Bicycle Safety Improvement Project

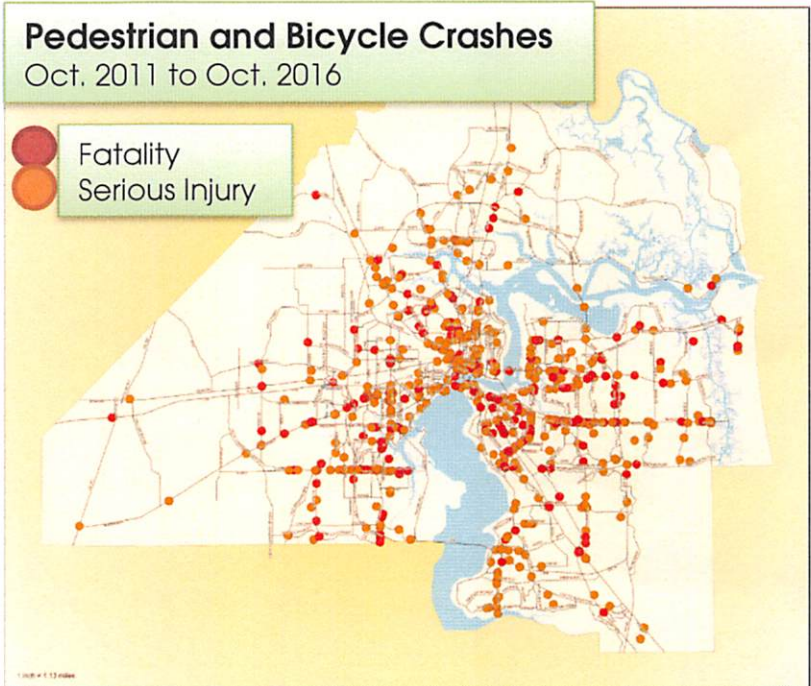
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### Pedestrian and Bicycle Crashes

Oct. 2011 to Oct. 2016

 Fatality  
 Serious Injury



### PROJECT DESCRIPTION:

The project consists of 7 locations that were identified as having the highest number of bicycle and pedestrian crashes between 2011 and 2015, and 1 of those locations is near a senior center that was audited by the Crosswalk Coalition, a group of pedestrian advocates coordinated by Jacksonville City Council President Lori Boyer. There have been 62 pedestrian crashes at these 7 locations over the last 4 years, 13 of which resulted in a fatality or incapacitating injury.

All of the project locations are on state roads, which intersect with a city road. The improvements entail new high emphasis crosswalks (continental), ADA curb ramps, new pedestrian signals, sidewalks, pedestrian refuge islands, street lights and upgrading existing crosswalks to high emphasis crosswalks. Additionally, Rectangular Rapid Flashing Beacons (RRFB) will also be installed.



## DEPARTMENT OF PUBLIC WORKS



### BENEFITS:

Many of the locations with the highest crashes are attributed to lack of infrastructure or devices and at some locations, inadequate design. The improvements that the City proposes have been proven to reduce bicycle and pedestrian crashes. The following reduction data is provided by the Federal Highway Administration:

- Installing Pedestrian Signals: 50% - 55% ped crash reduction
- Installing Refuge Island: 56% ped crash reduction
- Improving Street Lighting: 42% - 78% ped crash reduction
- Installing Sidewalk: 65% - 89% ped crash reduction

### APPROPRIATION REQUEST: \$635,941.37

|                                |              |
|--------------------------------|--------------|
| (17) High Emphasis Crosswalks: | \$55,680.00  |
| (6) Pedestrian Signal Heads:   | \$5,568.00   |
| (14) Curb Ramps:               | \$24,067.68  |
| 740 ft of Sidewalk (5'):       | \$85,840.00  |
| (3) Pedestrian Crossing Signs: | \$10,440.00  |
| (3) Pedestrian Refuge Islands: | \$48,720.00  |
| (5) Street Lights:             | \$29,000.00  |
| (2) RRFB Beacon:               | \$69,600.00  |
| (1) Sight Line Clearance:      | \$5,800.00   |
| (2) RRFB Mast Arm:             | \$70,000.00  |
| (1) Drainage Pipe:             | \$66,352.00  |
| Labor:                         | 25%          |
| Contingency:                   | 10%          |
| Total:                         | \$635,941.37 |



\* Example Intersection Improvement

### \*Proposed Improvements of Example Intersection:

- New crosswalk on west side of intersection
- 2 new pedestrian signal heads (●)
- Upgrade to high visibility crosswalk at 3 existing crosswalks
- Signal reconfiguration to support new pedestrian phase
- 2 ADA curb ramps