Public Information Meeting

Orange Camp Road

Dr. Martin Luther King Jr. Beltway to I-4

Presented by:
Volusia County
August 2, 2018
Project Goals

✓ To improve the operations and safety for Orange Camp Road (OCR) and the Dr. Martin Luther King, Jr. (MLK) Beltway

✓ Gateway Opportunity

✓ Complete Streets
  • Pedestrian and bicycle accommodations
  • Public transportation

✓ Improvements accommodates future widening on MLK Beltway
Existing Conditions

- Orange Camp Road (OCR)
  - Posted Speed = 50 MPH
  - Minor Arterial Urban Roadway
  - 2-Lane with un-paved shoulders

- Dr. Martin Luther King Jr. (MLK) Beltway
  - Formerly known as West Volusia Beltway
  - Posted Speed = 55 MPH
  - Minor Arterial Urban Roadway
  - 2-Lane with paved shoulders

- Bicycle/Pedestrian Facilities
  - Existing 10’ concrete multi-use trail from West of Blue Lake to East of MLK Beltway on south side of OCR
Orange Camp Road Improvements
Orange Camp Road – Typical Section

• Proposed Improvements
  • Curb & Gutter with Design Speed of 45 MPH
  • Two 12’ travel lanes plus a 5’ bike lane (EB & WB)
  • 10’ concrete multi-use trail on south side
Proposed Improvements

- Two 12’ travel lanes with 5’ paved shoulder NB
- 40’ Raised Median with potential landscaping
  - Type E Curb & Gutter
Special Considerations

• Pedestrian Improvements
  • Currently only 2-legs of intersection have marked crosswalks
    • Leg crossing OCR is designated as a School Crossing
    • Provide temporary crossings in adjacent quadrants during construction
  • Repair 10’ concrete multi-use trail as needed throughout the project

• Mid-block crossing at Victoria Commons

• Temporary Traffic Control Phasing
  • Minimize impacts to traffic:
    • Vehicular, Public, Bicycle & Pedestrians
  • Temporary Drainage
Environmental Considerations

• Wetlands
  • Multiple existing wetlands/mitigation areas adjacent to both north and south sides of OCR as well as west side of MLK Beltway
  • Multiple efforts to avoid/minimize through design include:
    • NO Southbound lane widening on MLK Beltway adjacent to wetland conservation area
    • Widening to south of OCR to avoid wetland impacts

• No impacts to existing conservation easements
Roundabout Benefits

• Safety
  • Fewer crashes (90% fewer fatalities and 75% fewer injuries)
  • Intersection works during power outage

• Time
  • Reduction in amount of delay through intersection

• Environment
  • Reduction in pollution from cars waiting at signal
  • Less pavement area

• Aesthetics
  • Provides area for landscaping

• Cost
  • No yearly maintenance cost
Existing Traffic Conditions

AM Peak: LOS E, Delay = 60.5 Sec

PM Peak: LOS E, Delay = 58.9 Sec
Proposed Signal Option

AM Peak: LOS D, Delay = 38.9 Sec

PM Peak: LOS C, Delay = 34.9 Sec
Roundabout Screening

- Intended to quickly assess project specific conditions to determine the viability of the roundabout alternative

<table>
<thead>
<tr>
<th>ROUNDABOUT SCREENING</th>
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<tbody>
<tr>
<td><strong>Existing Project Traffic Control</strong></td>
</tr>
<tr>
<td>Signalized</td>
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<tr>
<td><strong>Existing Project Classification</strong></td>
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<tr>
<td>Design</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Screening Criteria</th>
<th>Yes</th>
<th>No</th>
<th>If Yes, give brief description</th>
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</thead>
<tbody>
<tr>
<td>Does the intersection have physical or geometric constraints that would limit visibility or complicate construction?</td>
<td>✓</td>
<td></td>
<td>N/A</td>
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<tr>
<td>Does the Major roadway AADT exceed 90% of total intersection AADT</td>
<td>✓</td>
<td></td>
<td>N/A</td>
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<td>Does the intersection have Pedestrians with special needs that would have difficulty crossing the road?</td>
<td>✓</td>
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<td>School Crossing</td>
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<td>Is the intersection located within a coordinated signal network</td>
<td>✓</td>
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<td>N/A</td>
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<td>Is there Downstream traffic control or a condition that would cause queue back up into the roundabout</td>
<td>✓</td>
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<td>N/A</td>
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<tr>
<td>Are there Right-of-way issues? Would the installation of a roundabout create impacts to historical sites and environmentally sensitive sites? Would the relocation of residences or businesses be required?</td>
<td>✓</td>
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<td>N/A</td>
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Proposed Roundabout Option

Intersection Results

• AM
  • LOS C
  • Delay 20.0 Sec.

• PM
  • LOS C
  • Delay 21.6 Sec.

Victoria Garden Intersection

- Signal warrant analysis is being completed
- Pedestrian crossing will be provided
  - On-demand Pedestrian Signal (capable of future expansion to a full traffic signal)
  - Pedestrians, Bicyclists
Preliminary Cost Estimate

• **Construction Cost** – estimated at **$11,351,488**
  • Utilize existing pavement
  • Sidewalk/trail construction and repair
  • Proposed drainage
  • Contingency
### Orange Camp Road Project Schedule

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<thead>
<tr>
<th>Year</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
<th>2020</th>
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<td>Construction</td>
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What’s Next

• Tonight
  ▪ Submit comments

• Future
  ▪ Review and evaluate comment cards
  ▪ Finalize intersection option
Public Information Meeting

ORANGE CAMP ROAD

Thank you!