Pedestrian Improvements – King Street and Adjacent Neighborhoods

Taylor Run Civic Association

2.19.2014
Tonight’s discussion

- Additional pedestrian improvements, beyond those proposed in the King Street Project
- Types of improvements
- 2008 Pedestrian and Bicycle Mobility Plan recommendations
- Community feedback
Roadway design elements that affect driver behavior

- Horizontal Curvature
- Vertical Curvature
- Adjacent Land Use
- Lane Width
- Design speed
- Signage
- Pavement Markings

Non-physical ways to affect driver behavior
- Enforcement
- Education
Summary of King street project

• Narrow moving lanes to 10 ½ feet
• West Cedar Street to Highland Place
  • Install bike lanes in both directions
  • Remove parking
• Highland Place to Janney’s Lane
  • Maintain Parking
  • Provide shared eastbound lanes
  • Provide shared westbound lanes where parking is maintained
  • Provide buffer for south sidewalk
• Install additional pedestrian & bicycle improvements
Pedestrian Improvements

• Buffered south sidewalk between Janney’s and Highland

• Pedestrian rapid flashing beacon and High visibility crosswalk at Upland Pl.

• Pedestrian countdown signals and push buttons at Highland Pl.

• New crosswalks at Park Pl., Carlisle Dr., W Cedar St. & W View Tr.

• Speed board between Highland Pl and Upland Pl (if feasible)

• Remove sidewalk obstructions where feasible
King Street existing conditions

- **King Street**
  - 11 foot travel lanes
  - 12,750 vehicles per day

- **Janney’s Lane**
  - 10 foot travel lanes
  - 7,875
  - 5 foot bike lane on one side

- **Russell Road**
  - 10-11 foot travel lanes
  - 7,800 vehicles per day
  - Speed cushions
Types of pedestrian improvements

- Crosswalks
- Signage
- Variable Speed Boards
- Curb ramps
- Sidewalks
- Buffers
Best practices

- Wide outside lane
- Pedestrian signage and signal
- Narrower moving lanes
- Crosswalks at intersections
  - High visibility
  - Standard

<table>
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<tr>
<th>Lane width (ft)</th>
<th>Reduction in Free-Flow Speed (mi/h)</th>
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<tr>
<td>12</td>
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Recommended Pedestrian crossing improvements

Janney’s Ln Resurfacing Project

King-Callahan-Russell Intersection Project
Recommended curb ramp improvements

Legend
- Construct New Curb Ramp
- Reconstruct Existing Curb Ramp

Road
- Surface Water
- Park
- City of Alexandria

Taylor Run Intersection Project
King-Callahan-Russell Intersection Project
Recommended signalization improvements

Proposed as part of the King Street Project

King-Callahan-Russell Intersection Project
Recommended sidewalk improvements

Janney’s Ln Resurfacing Project

Legend
- Remove Clear Width Obstruction
- Remove Surface Defect
- Reconstruct Sidewalk Across Driveway
- Construct New Sidewalk / Long Term: Create Buffer
- Construct New Sidewalk
- Improve Landscaping in Buffer Area
- Long Term: Create Buffer
- Reconstruct Existing Sidewalk / Long Term: Create Buffer
- Reconstruct Existing Sidewalk
- Road
- Surface Water
- Park
- City of Alexandria
Possible Additional Improvements

- Work with homeowners on landscaping to provide clear sidewalks
- Consolidate signs/minimize sidewalk obstructions
- Add another pedestrian crossing at intersection
- Advanced warning signs
- Colored bike lanes in conflict zones
Community feedback – Your Suggestions

• New ideas or suggested Improvements?

• Prioritization of improvements already identified.
Thank you

Questions???

• Hillary Poole: Hillary.Poole@AlexandriaVA.gov
• Pedestrian and Bicycle Mobility Plan Maps: http://alexandriava.gov/localmotion/info/default.aspx?id=11418