Accessible Pedestrian Signals Pilot Project – Citywide and Central Loop
Public Meeting Open House
July 18, 2019
TODAY’S GOALS

• Provide a project overview
• Present the design process and evaluation criteria
• Discuss schedule and next steps
• Present prioritized locations
• Receive your input!
PROJECT GOALS

• Support people with visual and hearing disabilities

• Support CDOT’s initiative for citywide APS implementation

• Develop best practices
PROJECT OVERVIEW

• What are Accessible Pedestrian Signals?
  ➢ Audible tones
  ➢ Speech messages
  ➢ Vibrating surfaces

• APS Benefits
  ➢ Enhance pedestrian safety
  ➢ Enhance pedestrian mobility
  ➢ Enhance pedestrian accessibility
PROJECT OVERVIEW

• APS Investigation
  ➢ Design Guidelines
  ➢ Equipment

• Project Design Requirements
  ➢ MUTCD Compliant
  ➢ Active Detection
  ➢ Audible Indications
  ➢ Vibrotactile Push Button
DESIGN PROCESS

• Stakeholder coordination

• Draft locations
  ➢ Near public transportation
  ➢ Six location environments

• Evaluation criteria developed
EVALUATION CRITERIA

- Prioritization Worksheet Tool

- Intersection Factors
- Geometric Factors
- Signal Control Factors

```
<table>
<thead>
<tr>
<th>Intersection Worksheet</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location:</td>
<td></td>
</tr>
<tr>
<td>Evaluation: (From Engineer and/or Mobility Instructor)</td>
<td></td>
</tr>
<tr>
<td>Data:</td>
<td></td>
</tr>
<tr>
<td>Configuration (check one)</td>
<td></td>
</tr>
<tr>
<td>Geometric Factors</td>
<td></td>
</tr>
<tr>
<td>3-leg</td>
<td>0</td>
</tr>
<tr>
<td>3-leg offset</td>
<td>0</td>
</tr>
<tr>
<td>Sing. (1 or Y)</td>
<td>3</td>
</tr>
<tr>
<td>5 or more legs</td>
<td>12</td>
</tr>
<tr>
<td>Mid-block section</td>
<td>14</td>
</tr>
<tr>
<td>Signalization (check one &amp; LPF if applicable)</td>
<td>Crossing distance &gt; 100 ft</td>
</tr>
<tr>
<td>Pedestrian</td>
<td>0</td>
</tr>
<tr>
<td>Accessible (foot or fully)</td>
<td>2</td>
</tr>
<tr>
<td>Signage</td>
<td>6</td>
</tr>
<tr>
<td>Exclusive pedestrian phase</td>
<td>8</td>
</tr>
<tr>
<td>LPF = Leading Pedestrian Interval</td>
<td>8</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Transit Facilities within a block (1/8 mile) of the intersection - all legs (check one)</th>
<th>Signal Control Factors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-transit facilities</td>
<td>Right turn on red permitted</td>
</tr>
<tr>
<td>Single bus route</td>
<td>Lane protected left turn phase</td>
</tr>
<tr>
<td>Multiple bus routes</td>
<td>Non-congested WR/LK interval</td>
</tr>
<tr>
<td>Transit facilities</td>
<td>Right turn phase or light on median phase</td>
</tr>
<tr>
<td>Distance to Program for Visually Impaired (check one)</td>
<td>Channeled right turn lane under signal control</td>
</tr>
</tbody>
</table>

Distance to High Pedestrian Generators (check one)

<table>
<thead>
<tr>
<th>Score</th>
<th>Comments</th>
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</thead>
<tbody>
<tr>
<td>0</td>
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<tr>
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<tr>
<td>8</td>
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<tr>
<td>10</td>
<td></td>
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</tbody>
</table>

Intersection Worksheet Score | Comments Score | Total Score |
```
EVALUATION CRITERIA

• Intersection Factors
  ➢ Intersection Configuration
  ➢ Type of Traffic Signalization
  ➢ Distance to Transit Facilities
  ➢ Distance to Visually Impaired Facilities
  ➢ Distance to High Pedestrian Generators
EVALUATION CRITERIA

• Geometric Factors
  ➢ Curb radius greater than 25’
  ➢ Pedestrian islands or medians
  ➢ Apex curb ramps
  ➢ Crosswalk skews
  ➢ Crossing distance
    ➢ Greater than 75’
    ➢ Greater than 100’
    ➢ Greater than 120’
EVALUATION CRITERIA

• Signal Control Factors
  ➢ Right turns permitted on red
  ➢ Leading protected left turn phase
  ➢ Non-concurrent WALK intervals
  ➢ Protected right turn or right turn overlap phases
  ➢ Channelized right turn lane under signal control
PRIORTIZED LOCATIONS

• Prioritized list of 65 locations
  ➢ APS Locations to be installed
  ➢ APS Locations likely to be installed
  ➢ APS Locations funding dependent

• CDOT committed to install up 25 to 50 locations
SCHEDULE AND NEXT STEPS

• Finalize APS locations – August 2019
• Complete Design – 2020 Q1
• Complete Construction – 2021
WE WANT YOUR FEEDBACK!

• View other presentations
• Talk with project team members
• Provide a formal written comment
• Written comments will be accepted through Aug. 1
THANK YOU!

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facebook.com/CDOTNews