Murdock Street Safety Improvements Project

Presented by
Valerie Chia
Bob Stathopoulos

Presented to
City of Somerville

September 26, 2017
Agenda

- Welcome and Introductions
- Project Overview
- Existing Conditions and Design Constraints
- Concepts
- Next Steps
- Discussion
Project Goals

- Improve safety and clarity for all modes
- Improve drainage and reduce flooding
- Improve pedestrian accommodations and ADA accessibility
- Provide access for emergency response
- Reconstruct the road with consideration for future developments
Existing Conditions
Insufficient Sidewalks
Existing Conditions
Deficient Pavement, Poor Drainage
Existing Conditions
Undefined Parking
Design Constraints

- Need for defined parking
- Somerville’s emergency response access
  - 18’ – 20’ requirement
- Limited right of way
- Utilities along Murdock Street
Traffic Circulation – Existing
Traffic Circulation – Proposed (One Way)
Traffic Volumes – a.m. and (p.m.) Peak Hours

EXISTING

KIDDER AVE
BOSTON AVE
CEDAR ST
MURDOCK ST
CHARLES E RYAN RD
MORRISON AVE

19 (24)
62 (26)
18 (8)

Not to scale.
Traffic Volumes – a.m. and (p.m.) Peak Hours

PROPOSED
(ONE WAY)
Concept 1 – Two Way

- Sidewalk, parking on North side
- Fewest parking spots retained (15)
Concept 1 – Two Way
Concept 2A – One Way

- Sidewalk, parking on North side
- 19 parking spots
Concept 2A – One Way
Concept 2B – One Way

- Sidewalk, parking on South side
- 24 parking spots
Concept 2B – One Way
Concept 3 – One Way

- Sidewalk, parking on South side
- 23 parking spots – realigned in coordination with 21 Murdock redevelopment
Concept 3 – One Way
Concept 4 – Shared Street (Woonerf)

- Works well for low volume residential streets
- Balance the need for parking with safer pedestrian accommodations
- Creates public space
- Parking and landscaping elements serve as “chicanes” slowing traffic
- Textured/pervious pavement

Image: NACTO
Local Examples

Webster St., Brookline

Winthrop St., Cambridge
Parking stagger along Murdock Street – 27 spots
Traffic calming elements create a pedestrian friendly environment
Room for drainage elements (rain gardens) and landscaping
Concept 4 – Shared Street
# Selection of a Preferred Alternative

<table>
<thead>
<tr>
<th></th>
<th>Existing</th>
<th>1</th>
<th>2A North</th>
<th>2B Split</th>
<th>3 South</th>
<th>4 Woonerf</th>
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<tbody>
<tr>
<td><strong>Circulation</strong></td>
<td>Two-Way</td>
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<tr>
<td><strong>Parking Spaces</strong></td>
<td>38</td>
<td>15</td>
<td>19</td>
<td>24</td>
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## Degree of Change versus Today

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Next Steps

- Selection of a preferred alternative
- Preliminary Design
- Next Meeting - Anticipated January 2018
Discussion

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