2019 Construction Season Review
and
2020 Planning
## Sustainable Infrastructure Plan

<table>
<thead>
<tr>
<th></th>
<th>Annual Investment before Nov 2016 capital bond</th>
<th>2017</th>
<th>2018</th>
<th>2019 In Progress (End Of Year Calculations Underway)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paving</td>
<td>~ 3 mi.</td>
<td>5.13 mi</td>
<td>7.37 mi</td>
<td>4.34 mi</td>
</tr>
<tr>
<td>Sidewalk Reconstruction</td>
<td>~ 1 mi.</td>
<td>3 mi</td>
<td>2.86 mi</td>
<td>2.77 mi 0.85 DPW 1.92 Contractor</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.25 DPW</td>
<td>1.26 DPW</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.75 contractor</td>
<td>1.6 Contractor</td>
<td></td>
</tr>
<tr>
<td>Water Main Relining</td>
<td>As needed</td>
<td>1.78 mi</td>
<td>1.93 mi</td>
<td>1.85 mi</td>
</tr>
<tr>
<td>Water Main Replacement</td>
<td>As needed</td>
<td>0.44 mi</td>
<td>1.5 mi</td>
<td>0.1 mi</td>
</tr>
<tr>
<td>Curb</td>
<td>As needed</td>
<td>0.62 mi</td>
<td>0.53 mi</td>
<td>0.15 mi</td>
</tr>
<tr>
<td>Sewer / Stormwater Pipe Rehab</td>
<td>As needed</td>
<td>$165k</td>
<td>$272k</td>
<td>$455k</td>
</tr>
</tbody>
</table>
2019 Concerns & Issues:

• External Issues
  – Duration of projects and projects that start and stop
  – Desire for more frequent and accurate communication, more online resources

• Internal Issues
  – Coordination with private laterals and service lines
  – Determining appropriate level of pre-construction testing, locating, and analysis given challenges with soils, insufficient utility mapping
2020 Challenges:

• Continued high volume of work stretching staff resource
• Open WR Engineer position – first two recruitment rounds unsuccessful
• Expanded Water Resource work on major roadways
Planned & Potential Improvements - 1:

- **Contract scope:**
  - Combine paving, water, and other capital work into one contract where multiple assets are being rehabbed in the same season:
    - Lakewood
    - Tallwood
    - Howard / St Paul / S Winooski
    - North Prospect

- **Contract terms:**
  - Bid early and allow pre-July 1 work when other municipalities not ready
  - Consider performance bonuses
  - Consider bid requirements to demonstrate years of experience and financial viability
  - Tie milestones to duration of work on critical streets
Planned & Potential Improvements - 2:

• Parking management:
  – Permit staff and contractor vehicles to park in regulated areas excepting ADA spaces
  – Permit short-term use of RPP on-street parking for displaced residential vehicles
• Hire Resident Engineer early to:
  – Review constructability
  – Review and amend, if necessary, construction bid packages
• Develop service line / lateral strategy for Water and Wastewater projects
  – Work with City Attorney to develop modified approach
Planned & Potential Improvements - 3:

• Hone communications:
  – Explain to public what we learned in 2019 and how we’re responding
  – Upgrade construction portal and upload 2020 projects loaded by end of February
  – Develop webpages specifically for sidewalk reconstruction and crosswalks
  – Explain coordination strategy with 2020 projects, Parkway and Roundabout to South End
  – Consider May BBQ as part of Public Works Week to have public meet staff and learn about projects
2020 Planned Capital Projects in the New North End (does not include sidewalks)
2020 Planned Capital Projects in Downtown and South End (does not include sidewalks)
2019 Construction Season Review and 2020 Planning