To: DPW Commissioners  
Fr: Chapin Spencer, Director  
Re: DPW Director’s Report  
Date: May 18, 2022

**DPW FY’22 Workplan Progress Report**

Attached you will find our progress report on the Goals and Objectives we presented to the Commission at the beginning of FY’22. As you will see, the Department has made major progress on almost all of the 23 objectives listed. We thought this progress report may be helpful in conducting the annual reviews for the two DPW appointed positions – the Director and the City Engineer. Feel free to reach out with any questions or feedback. For more info, contact Chapin Spencer, cspencer@burlingtonvt.gov.

**Main Street Public Input and Council Decision**

We are continuing to advance the conceptual design for the generational rehabilitation and the re-envisioning of the six blocks of Main Street (Union to Battery). We have attended over 35 meetings, proactively met with underrepresented groups, hosted an online survey and met one on one with key stakeholders along the corridor. More information is at: http://greatstreetsbtv.com/. The public survey is open until May 14 and we encourage Commissioners to weigh in. For more info, contact Olivia Darisse, odarisse@burlingtonvt.gov.

**Contract Award for Initial Champlain Parkway Construction Phase**

On April 25, the City Council unanimously approved the award of the initial construction contract for the project. I have provided the Notice of the Award to the contractor. We are on target for a late June construction start. Past project litigants have indicated that they will be filing a motion for an injunction. We will review the motion once we receive it, but are confident in our position and are proceeding with our preparatory work for construction. For more info, contact Corey Mims, cmims@burlingtonvt.gov.

**Water Plant Chlorination Incident**

On April 28, DPW issued a VT Alert notice to the public alerting them of potential taste/odor issues in the municipal water supply due to a brief introduction of higher than normal chlorine levels. Samples taken from various points in our distribution system were within safe and acceptable standards. We were in communication with the State throughout the day and during the week following. We issued the notice to make sure that users are aware of the situation and they may wish to flush water faucets until any unusual chlorine taste or odor dissipates. Staff is conducting an after incident report and I can provide the Commission more information at the meeting. For more info, contact Megan Moir, mmoir@burlingtonvt.gov.

**Thank you Nicole Losch!**

After 15 years of leading many of our transportation innovations, Nicole Losch has been hired into a new position at the Clerk Treasurer’s Office to help identify and secure grants for the entire City and not just DPW. We are very sad she is leaving DPW, but pleased she will continue working with us in her new City role. I personally want to thank her for helping our department skillfully navigate some of the most challenging projects over those 15 years and working so hard to advance our bike, pedestrian and traffic calming infrastructure. We are quickly analyzing our future planning needs
and determining whether we should adjust the job description before it is posted for hire. For more info, contact Norm Baldwin, nbaldwin@burlingtonvt.gov.

FY'23 Budget Development
We will be presenting our DPW FY'23 budgets to the City Council on May 16 and May 19 next week. Commissioners are welcome to attend if interested. The presentation materials and the meeting information will be on Board Docs in the next couple of days (https://go.boarddocs.com/vt/burlingtonvt/Board.nsf/Public). For more info, contact Chapin Spencer, cspencer@burlingtonvt.gov.

Construction Has Started!
We are well underway with our construction season. Projects include a critical upgrade to an old water main on Home Avenue and sidewalk rebuilding in the Old North End. Paving starts later in June. You can visit burlingtonvt.gov/construction for more info. We are visiting the NPA's and you can see a version of our attached presentation in the packet (attached).

Thank you all. Please don't hesitate to reach out with any questions.
• 95 miles of roadway
• 127 miles of sidewalk
• 75 signalized intersections
• 1 water plant
• 110 miles of water mains
• 3 Wastewater Treatment Plants
• 49 miles of sanitary sewer
• 45 miles of combined sanitary / storm sewer
• 37 miles of storm sewer
• 25 pump stations
• 102 storm water outfalls
• 2,000+ catch basins
• 900 fire hydrants
• 12,000 residential units served by recycling

• 1,053 parking meters, 3 parking garages
• 300 city vehicles serviced and maintained
• 2 post-closure landfills
• 33 crossing guards
• 541 excavation, obstruction permits / year
• 76 traffic requests received / year
• 2,500+ customer service requests / year
• 3,500 tons of salt / year
• 3 fuels supplied at fueling station
• 1,014 crosswalks, stop bars & turn arrows maintained
• 1 great team that makes it all happen
What Informs Our Work

- Residents
- Funding
- City Plans & City Council Priorities
- Federal & State Policy and Permits (W, WW, SW)
- Intergovernmental Coordination
- Private Development
Sustainable Infrastructure Plan Update

- Proposed in 2016, passed overwhelmingly by voters; additional bond approved 2022

- **Core Asset Investment:** Sidewalks, Streets, Water Infrastructure

- Clean Water Resiliency Plan (SIP Phase 2), proposed & passed overwhelmingly in 2018 - focuses on initial round of urgent upgrades to Wastewater & Stormwater Infrastructure

<table>
<thead>
<tr>
<th>Capital Reinvestment</th>
<th>Pre-2017 Annual Investment</th>
<th>Average per year since 2016 Bonds</th>
<th>TOTAL since Passage of 2016 Bonds</th>
<th>2022 Plans</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paving</td>
<td>~2 mi</td>
<td>3.7 mi</td>
<td>18.5 mi (20% of City)</td>
<td>~6 mi (including State)</td>
</tr>
<tr>
<td>Sidewalk Reconstruction</td>
<td>~1 mi</td>
<td>3.2 mi</td>
<td>15.86 mi</td>
<td>3.2 mi</td>
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<tr>
<td>Water Main Rehab</td>
<td>No regular dedicated funding</td>
<td>~1.9 mi (not including 2020, COVID)</td>
<td>7.6 mi</td>
<td>~1.3 mi</td>
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</tbody>
</table>
Funding Updates

- Will begin to draw down new March 2022 bond funding
- Federal infrastructure bill is targeted
- Construction prices are up, inflation is up and the supply chain has been stretched
Sidewalk Repairs on Murray & N Champlain to Begin!

ONE Central - No. 5461 • Customer Service
Apr 6, 2022
DPW crews will begin sidewalk spot repairs as early as Monday. This includes:
- North Champlain Street between North Street and Peru St.
- Murray Street between North St and Peru St.

**DETAILS**
Work takes place Monday - Friday, 7AM-3PM. Construction schedule may be extended depending on circumstances, and we thank you for your patience. There may be occasional temporary sidewalk closures.

**IMPACTS**
- There will be stretches of the street where parking may be prohibited for a short time.
- Properties with any sidewalk in front of driveways will be given at least 24 hours advance notice of impacts.
- The limits of work extend to 1 foot on either side of the sidewalk. Please ensure that any personal possessions, including flowers, etc. are clear from the work zone during this project.

With the additional public support for infrastructure work, we are continuing our efforts at the enhanced rebuilding of our 130 mile sidewalk network. You can learn about the projects we have planned at http://burlingtonvt.gov/construction (still in the process of being updated for 2022).

Thank you for your patience during this project. For any questions, please feel free to reach out to customer service at 802-863-9094 or dpw-pinecustomerservice@burlingtonvt.gov.
Clean Water Resiliency Plan

- **Wastewater Plant Disinfection System (all 3 Plants) and Main Plant Computerized Controls Upgrade** - Completed

- **8+ mi of Stormwater & Sewer Pipe Repair** – Ongoing
  - Pine: Bank to College Sewer Replacement (mid-summer)

- **Wastewater Pump Station Improvements** - 2 Completed in 2021 (Flynn Ave and Fletcher Pl)

- **Green Stormwater Infrastructure**
  - South End completed in 2021
  - ONE planned in 2022: Rose & School St
  - Other GSI work underway on other projects

- **Water Resources will be visiting NPA’s later this summer**
Sidewalk Reconstruction

**Sidewalk Progress Since Bond Passage in 2016**

- Pre-Bond Average: 1 mile
- 2017: 3 miles
- 2018: 2.86 miles
- 2019: 3.77 miles
- 2020: 3.39 miles
- 2021: 2.8 miles
- 2022 Projected: 3.33 miles

- 15.82 miles of sidewalk replaced since passage of 2016 Bond (not including 2022).
- Sidewalk network is 130 miles.
- Current trajectory keeps us on the 40 year replacement cycle.
### Sidewalk Rebuilding - DRAFT Wards 2/3 List

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<tr>
<th>Street</th>
<th>House #</th>
<th>Ward</th>
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<td>BOOTH ST</td>
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<td>GRANT ST</td>
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<td>GREENE ST</td>
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<tr>
<td>PEARL ST</td>
<td>88</td>
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City Paving

- Allen St: ALL
- Birchcliff Pkwy: ALL
- Flynn Ave: Rail – Oakledge Park
- Franklin Square: ALL
- Lakewood: All (after sewer main replacement)
- North Ave: Ethan Allen Pkwy – Shore Rd
- North Prospect St: Pearl to North (after water main relining)
- Plattsburg Ave: North Ave – Turf Rd
- Route 127: Mill & Fill Bridge
- Tallwood: All (after sewer main replacement)
- University Place

*Additional funds set aside for more durable patch repairs throughout City*
2022 State Paving List

- **Main St:**
  - N. Willard eastbound to City limits

- **Willard St:**
  - Main St to Riverside Ave

- **Riverside:**
  - N. Winooski to Winooski City limits

State of Vermont Agency of Transportation (VTrans) has proposed repaving U.S. Route 7, U.S. Route 2 and ALT. U.S. Route 7 starting in 2022 and continuing in 2023.

Additional information can be found at the VTrans website: vtrans.vermont.gov/find-a-project
Transportation

- North Champlain 2 way protected bike-lane – *tentative this year*
- Mansfield Shared Use path
- University Place
- Plattsburgh Ave bike-lanes – *community meeting upcoming to discuss*
- Expansion of bikeshare system
Shelburne Street Roundabout

Projected Completion: Summer 2023

Hotline: 802-496-8956

info@ShelburneStreetRoundabout.com
Champlain Parkway

First Phase scheduled to start July 2022 and completed in 2024

Contact:
Info@champlainparkway.com
www.champlainparkway.com
802-496-8956

Initial contract involves upgrades to Lakeside Ave & section of Pine between Lakeside & Kilburn, as well as the construction of the Parkway from Home Avenue to Lakeside. More specific information on the timing and location of upcoming work activities will be shared as those details are developed.
# Burlington South End Project Sequence - Last Updated on 03-03-2022

<table>
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<tr>
<th>Project/Segment</th>
<th>2021</th>
<th>2022</th>
<th>2023</th>
<th>2024</th>
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<td>I-189 Ramps</td>
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<td>Home Ave to Lakeside Ave (C2) &amp; C1 Path</td>
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<td>Main Street - Great Streets (Battery to Union)</td>
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<tr>
<td>Pine Street from Kilburn St to Main St</td>
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Great Streets BTV
Main Street Revitalization

The Great Streets Initiative is a culmination of many years of planning and project development to make new investments in Downtown Burlington’s public infrastructure - ensuring that Burlington residents have a downtown that is a vibrant, walkable, and sustainable place to be.

Concept Plans for the Great Streets Initiative Main Street Project are currently being developed by the Department of Public Works in collaboration with a consultant team and with the Burlington community.

The City’s DPW and consultant team will go to the City Council in May to seek their support for the proposed reconfiguration of Main Street that will:

- **Rebalance allocation of space for various modes of transportation:**
  - Narrower drive lanes for motor vehicles
  - Wider sidewalks
  - Dedicated bike ways in both directions
  - Accessible streets and signs that support movement of people of all ages and abilities

- **Replace aging water and sewer infrastructure:**
  - Replacement and relining options
  - Oldest/failing lines to be replaced

- **Enhance and increase stormwater mitigation:**
  - Functional and attractive stormwater treatment areas
  - Enhanced landscaping/plantings
  - Reduces runoff to Lake Champlain
  - Improves stormwater quality

- **Activate space for public gathering:**
  - Flexible plazas and seating areas
  - Public art installations
  - Celebration of Burlington’s diverse culture
  - Gateway opportunities

Help shape the future of Main Street!
Visit the project website: http://greatstreetsbvt.com to take the online survey, add your email to our contact list, and see past presentations and community feedback summaries.
Other Projects of Note

- **University Place**: a reconfiguration of University Place converting vehicle traffic to one-way, construction of buffered bike lanes in each direction, pedestrian facility improvements and ADA upgrades, new curbing, widened and new sidewalk, signing and pavement marking, decorative lighting improvements, and related work. Additionally, relining of water and wastewater services are part of this project.

- **Mansfield Ave Sidepath & Traffic Calming**: consists of constructing 1600-foot long, 10-foot wide asphalt multi-use sidepath, ADA accessible ramps and crossings, signage, and pavement markings which will replace the existing 5-foot wide asphalt/concrete sidewalk on the eastern side of Mansfield Avenue from North Street to Colchester Avenue. The project also consists of installing traffic calming components along Mansfield Avenue, including three raised crosswalks, and a permanent bump-out at the Loomis Street intersection which will modify and replace the existing Quick-Build.
Upcoming Key Dates

- **Through 5/14**: Main Street survey available at GreatStreetsBTV.com
- 5/18: DPW Commission: Main Street Concepts presentation
- 5/23: Great Streets Main Street - City Council for regulatory decision
- 5/24: Transportation, Energy, Utilities Committee: *Sidewalks, Champlain Parkway & More*
- **Call 802-863-9093 or 802-863-4501 (Water) for interpretation or to request translation through Tele-language**

- **Construction Portal**: burlingtonvt.gov/construction

- **Maintenance & Infrastructure Requests**: See Click Fix, 802-863-9094, dpw-pinecustomerservice@burlingtonvt.gov

- **VT-Alert**: burlingtonvt.gov/BTV-alerts

- **DPW Public Information Manager**: Rob Goulding, RGoulding@burlingtonvt.gov, 802-881-2278
From all of DPW, Thank You!
Pedestrian Safety & Injury Data

- In 2017, planBTV Walk Bike called for 20 intersection improvements by 2026 at key intersections to improve pedestrian safety. As of 2021, we have completed key upgrades at 11 of these intersections including rebuilding the challenging Five Sisters intersection with crosswalks and pedestrian actuated signalization at each crossing; adding pedestrian signals at Battery & Maple to connect the Maple neighborhood more safely with the waterfront; pedestrian activated signalization at Colchester/Barrett/Riverside.

- We have replaced approximately 16 miles of sidewalk (tripling the normal amount) under the initial capital bond, passed in 2016 and shaved nearly 1,000 segments of sidewalk to reduce tripping hazards. With this work we upgrade curb ramps for ADA compliance.

- The Quick Build program has installed at least 24 curb extensions at 9 intersections - shortening crossing times

- Since 2016 and largely in coordination with projects supported by the Sustainable Infrastructure bond, we have built or enhanced dozens of crosswalks throughout Burlington.
  - Using a mix of federal, state and local funding we have added approximately 15 rapid flashing crosswalks since 2013. This includes 5 on North Avenue, as highlighted in the North Ave Corridor study.
  - DPW installed 18 new crosswalks in 2019 alone. This came on the heels of a historic year of capital investment made possible thanks to the use of the initial Sustainable Infrastructure Plan bond funding. See this article for more: https://www.burlingtonfreepress.com/story/news/local/2019/12/16/burlington-peDESTrians-new-crosswalks-construction-projects-completed-2019/2661786001/

- We recently secured a $1M grant for an Intervale Rd path and a $300K grant for Penny Lane path/sidewalk connectivity. Securing federal or state resources does alleviate the local tax burden, but also carries with it additional obligations which adds times to project completion.

- Great Streets work has shortened crossings on St. Paul while Main St is currently under design to improve pedestrian safety and increase pedestrian space

- Active Traffic calming programs are also being implemented, while data is being collected on other streets where requests are in.
Highlights of planBTV Walk Bike Progress

- New bike lanes on Austin Drive, Colchester Avenue, Ethan Allen Parkway, Flynn Avenue, North Avenue, Park Street, Pearl Street, Pine Street, Sherman Street, Winooski Avenue
- Burlington’s first protected bike lanes and Neighborhood Greenways
- Intersection improvements at 11 priority locations: Bank St / S Winooski Ave, College St / S Winooski Ave, Main St / S Winooski Ave, Main St / St Paul, Riverside Avenue sidepath crossings, Loomis St / N Prospect St, Pearl St / N Winooski Ave, Cherry St / S Winooski Ave, North St / N Winooski Ave, Barrett St / Colchester Ave, Maple St / Battery St, Howard St / St Paul
- Regulatory changes that allow people bicycling to cross signalized intersections using pedestrian signals
Sidewalk Reconstruction - Long Runs -- approved by Council April 2022

Table 1 - CY22 Contracted Sidewalk List

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<tr>
<th>Street Name</th>
<th>Limits of Work</th>
<th>Total LF of Sidewalk</th>
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<tr>
<td>Spruce St</td>
<td>Willard - Union: North Side, South Side Partial</td>
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<tr>
<td>North Ave</td>
<td>Simms – Northgate</td>
<td>753</td>
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<tr>
<td>Ledgemere/Margaret</td>
<td>All, North Side partial</td>
<td>1150</td>
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<tr>
<td>Marshall Dr</td>
<td>Gosse - Heineberg, both sides</td>
<td>1300</td>
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<tr>
<td>Holly Ln</td>
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