



Burlington Water Resources Division
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To: Mary O'Neil, Principal Planner, City of Burlington
Kevin Worden, P.E., Engineering Ventures
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CC: Chapin Spencer, Director, Burlington Public Works
Megan J. Moir, Assistant DPW Director, Burlington Water Resources
Norman Baldwin, P.E., City Engineer, Burlington Public Works
Laura Wheelock, P.E., Senior Engineer, Burlington Public Works

From: Jenna Olson, Water Policy & Program Manager, Burlington Water Resources

Date: February 19, 2021

RE: Burlington Water Resources comments on City Place Burlington 2/16/2021 submittal

Following a productive meeting with the City Place Burlington design team on February 12, 2021, Burlington Water Resources received a package of updated materials from the project design team on February 16, 2021. The following comments are in response to this most recent submittal, and outline the remaining items for resolution. Please note that Water Resources may have additional comments as new or updated information is provided.

1. Please confirm that there is design flexibility to divert all sewer flow to St. Paul and Bank St. if deemed necessary.
2. Please provide a description of water service connections. Water Resources must determine the best connection approach for the new buildings (i.e. single pipe for fire domestic or two separate pipes entering the building from outside).
3. Regarding the proposed waterline, Water Resources prefers to minimize the number of fittings. Therefore, if installing two offset tees at the intersection of St. Paul Street and Bank Street will reduce the number of fittings, please revise the plans accordingly.
4. Please update specifications to include SDR 35 PVC pipe for both sewer and storm lines. Sanitite style HDPE may be allowed for *stormwater* on a case-by-case basis, and the design team should schedule a discussion with Water Resources if they wish to use that material.



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5. Please provide the complete plan set when it is available for review. Final plans, including mechanical drawings related to metering, shall be reviewed and approved by Water Resources prior to construction.
6. See attached design checklist for Burlington's Water Resources infrastructure – please confirm that the checklist items have been completed for the latest iteration of the project and provide the completed checklist back to Water Resources.
7. The water service line on the street side of the meter shall be fused HDPE pipe with threaded fittings.
8. As previously discussed, if a booster pump is proposed an agreement will be needed with Burlington. Please provide an update on whether a booster pump is necessary as soon as possible.
9. The maximum fire flows should be provided to Water Resources as soon as possible. The flows will be modeled to ensure the distribution system can manage the proposed flows.
10. Water meter(s) shall be sized appropriately for the proposed buildings. Please note that Water Resources must install all water meters and meter reading equipment, and that work should be coordinated and scheduled with our crews accordingly.
11. The project must submit final fixture counts to Water Resources, including mechanical drawings showing the location and layout of metering.
12. Grease trap design should be presented to Water Resources for applicable areas of the proposed site.
13. A testable backflow preventer appropriate for the level of risk based on the proposed use of the building shall be installed for the water service.
14. The following link has additional information about water connections in Burlington:
<https://www.burlingtonvt.gov/DPW/Connection-Requirements>
15. Record Drawings stamped by a PE shall be provided that accurately depict all water resources infrastructure. The record drawings shall include all infrastructure in the right of way as well as infrastructure on the property. The record drawings shall include detailed mechanical drawings.
16. 14660-BTC-Drainage Analysis Report
 - Please confirm which thickness of Vegetated "Green" Roofs are proposed to retain 1" of rainwater.



- Site Soils (pg. 4) – Why are the soils assumed to be Group B in accordance with the DMUC? What has prevented soil samples in the excavated site location?
- As pervious pavers will become the responsibility of the City, please require these pavers be brick, and not concrete.
- Concentrated infiltrating (pg. 5)
 - The drainage analysis notes that “It is not presently feasible to evaluate all of these parameters because an existing building occupies the current site.” As this is not true for the portion of the site that has been demolished and excavated please provide narrative language matching the conditions as they currently exist and provide clear steps to determine if concentrated infiltration is, in fact, appropriate for use at this location.
- Peak Flow hydrographs were not included as part of the provided hydraulic modeling. Please provide these as part of the final application package.

17. Stormwater Specification Sections

- Please add a spec for pervious pavers to be brick per comment above.

18. Standard EPSC form Nov 2015(v4)

- In consideration of routine delays any construction project of this scale may experience, please check the Yes “Y” box on page 3 of this PDF indicating soils exposed after November 1st will be stabilized if needed. The contractor should be prepared for winter EPSC measures.
- A signature on the EPSC plan is required prior to final approval
- This project will also require the completion of a PCSW Management Plan prior to final approval – while the majority of this information is somewhere within the materials, we ask for a summary document to ensure there is a clear record of the parameters required for our review and approval.