

October 17, 2022

Chris Thompson, PE
The Site Design Company
268 High Street
Petersburg, VA 23803

**RE: Springhill Suites @ Richmond Airport
5252 Airport Square Lane
POD2023-00422**

Dear Mr. Thompson:

The Department of Public Utilities has completed a review of the water and sewer plans that are part of the plan of development submitted to the Planning Department on September 22, 2023.

DPU recommends approval of these plans by the Director of Planning.

General:

1. P.E. Seal with original signature and date is required on the Cover Sheet. A facsimile of seal, signature and date is acceptable on all other sheets.
2. Provide completed Local Review form (Project Summary Report, F-10).

C2.0 (Existing Conditions Plan):

3. Show and label the size and material of all existing water and sanitary sewer mains. See the Demolition and Utility Sheets as well.
4. Show all existing water meter/service and sanitary sewer laterals.
5. Existing utilities that will not be utilized with this project will need to be abandoned or removed per DPU Standards as mentioned in the concept plan review. See the Demolition and Utility Sheets as well.

C3.0 (Demolition and Phase 1 E&S Plan):

6. Add a note stating that, "All existing water and sanitary sewer to be abandoned will be completed in accordance with DPU Spec. 1.4.01C. and 10.3.10."

C5.0 (Utility Plan):

7. All utilities to be removed with this project should be omitted from the utility plan sheet and only be shown on the demolition sheet.
8. Provide benchmark within 500' of the proposed sanitary sewer.
9. Provide a minimum of three (3) northing/easting points.
10. Provide the sequence of construction for the installation of the proposed water main relocation. The sequence of construction should address the following:
 - a. Inspection of the existing valve prior to construction to ensure valve is working properly.
 - b. Fire Marshall will be onsite during shutdown.
 - c. Notices will be sent out two weeks prior to construction to affected businesses.
 - d. How to limit the shutdown as much as possible.
11. The 12" water main needs to be ductile iron pipe in accordance with DPU Standards.

12. The 12" water main would need to be replaced from the existing 12" valve in Airport Square Ln to the 12" x 8" reducer.
13. Provide a 12" valve on the northern side of the 12" x 6" tee. Relocate the 12" x 8" reducer directly after the 12" valve. Review and revise the water line design accordingly.
14. Install the valve on the fire hydrant lead near the tee in accordance with DPU Standards.
15. A fire hydrant is required at the end of the water main for adequate flushing of the line.
16. DPU recommends installing the water meter, boundary valve, irrigation meter, and an additional fire hydrant in the northeast of the hotel. This eliminates approximately 100' of 6" water line.
17. Be advised, the minimum size water line for fire protection is 8" in accordance with DPU Standards.
18. Label the monitoring manhole. The monitoring manhole need to be accessible to the Henrico County DPU personnel away from the traffic or parked vehicles.
19. Revise water and sewer material quantities in accordance with all comments.
20. Remove Note-7 from Notes as an exclusion meter is not shown to be installed on the plan.
21. Label the size and material of the domestic service line before the dual 1-1/2" water meter.
22. DPU recommends relocating the private sanitary sewer lateral from underneath the canopy as it will be difficult to maintain the service line.

C5.3 (Utility Notes and Details):

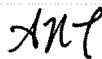
23. Class 1 is for frame construction. Check the type of construction on the fire flow estimate form.
24. With a ground floor area of 13,904 sf for 5 stories, the sf of the total floor area is 41,712. If the square footage of each floor area is different, list the area for each floor.
25. With a Required Fire Flow over 2,000 GPM, the building will need three (3) fire hydrants. The dedicated fire hydrant cannot be used to meet ISO or hose lay requirements. An additional fire hydrant is required for the building.

C7.0 (Profiles):

26. Update the water line profile per the plan comments.
27. A minimum of 5.5' of cover is required over the sanitary sewer mains.

If you have any questions concerning the above noted comments or the plans, please contact me at 501-4508 or John Yi at 501-4511.

Sincerely,



Alice Thompson
Utilities Engineer

cc: Ravi Patel, Khushal, LLC

bc: R. Claytor
M. Sossong
Daniel Ivy
T. Rigler, Planning

AT/djm

REVISED CONSTRUCTION PLANS REQUIRED