

September 9, 2022

Anne Tignor, P.E.
Youngblood, Tyler, & Associates, P.C.
PO Box 517
Mechanicsville, VA 23111

RE: Northstar Academy Phase 1
11501 Nuckols Rd
POD2022-00433

Dear Ms. Tignor:

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 August 18, 2022.

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

Please address the following comments before submitting the construction plans for signature.

General:

1. Agreements have been executed for this project.
2. Provide Water and Sewer Material Quantities on the construction plans.
3. The lighting locations cannot be approved until the final utility layout has been approved.

Sheet 3 of 19:

4. Provide a note indicating all existing utilities will maintain minimum cover during construction.

Sheet 6 of 19:

5. Label MH-1 as a "doghouse manhole" on the utility plan and profile sheet.
6. Provide a profile of the doghouse manhole to the next upstream and downstream manhole.
7. Label the size and material of the sanitary sewer lateral upstream of MH-3.
8. Provide a blowup of the water meter and fire service line connection area.
9. A domestic and fire system backflow preventer is required for this project. Be sure to reference the size and detail number of the backflow preventers.
10. Tie the water meter connection to the 8" water line instead of the fire service line.
11. Label the size and material of the fire service line before the boundary valve.
12. DPU no longer require the installation of detector checks. Replace the detector check with a boundary valve in accordance with detail D-476.
13. Label the distance from the water main to either the face or back of curb.
14. Provide bollards around the dedicated fire hydrant.
15. The valve on the existing fire hydrants is located over top of the sanitary sewer main. DPU recommend shift the sewer main 2-3' from the water valve.

Sheet 8 of 19:

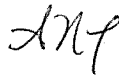
16. Show the existing storm sewer crossing (E4) on the water main profile near the 8" x 8" TS&V assembly.

Sheet 12 of 19:

17. Remove detail D-420 and replace with the fire system high hazard backflow preventer detail D-430.
18. Remove detail D-530 and replace with 1-1/2" and 2" meter setting with corporation stop D-534.

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: Crystal Trent, Northstar Academy, Inc

bc: Ralph Claytor
Daniel Ivy
Marchelle Sossong
Planner, Spencer Norman

ANT/vr