

March 29, 2010

William Kreye, II, P.E.  
Draper Aden Associates  
8090 Villa Park Drive  
Henrico, VA 23228

**RE: University of Richmond-SUP Road Improvements  
24 UR Drive  
File No. 1748; POD No. T-56**

Dear Mr. Kreye:

We have reviewed the construction plans submitted to the Planning Department on March 17, 2010.

Please address the following comments and **resubmit revised construction plans** for review. Water and Sewer Agreements that must be executed by the Owner and the County for water and sewer improvements are **not required** for this project.

**Cover Sheet:**

1. Provide an original signature and date on the Engineer's seal on the cover sheet.

**Sheet C3.0:**

2. As previously commented, indicate the size and material type of all existing water and sanitary sewer mains shown on the plan. Be sure to label the material type of existing 12" water main and size of the force main in River Road
3. The size of the existing sewer main in River Road appears to be incorrect. Review the Henrico GIS provided with plan comments and revise as necessary. Also, if the material type is unknown, reference "unknown" in the label of the size and material type callout.
4. As previously commented, the existing utilities shown on the plan do not appear to match what is shown on the CSB/CWB Sheets and Henrico County GIS. Review the 12" RCP pipes that connect to EX-MH (STA: 5+60). See all existing conditions, demolition, and layout sheets as well.
5. The CSB information provided for the existing manholes shown on the plan do not appear to be correct. Also, what is the purpose of the numbering beside the "csb" label? Review the CSB information for existing manholes (STA: 2+60 and STA: 0+64.49) and coordinate the CSB information with the appropriate CSB Sheet. See all existing conditions, demolition, and layout sheets as well.
6. The information provided for EX-MH (STA. 5+60) appears to be cut-off. Review and revise.

**Sheet C3.2:**

7. As previously commented, show all existing utilities (pipes, hydrants, valves, etc.) on the plan sheets. Show the existing 8" PVC sanitary sewer main located at the intersection of Spider Lane and U.R Drive.

**Sheet C3.2:**

8. As previously commented, the sheet number references next to the view windows do not appear to correctly match what is shown in the plan set. Review and specify the sheet numbers in the labels next to the view windows on the key plan.

**Sheet C5.0:**

9. As previously commented, be advised, DPU does not allow non-utility items to be installed within utility easements or directly over utility lines. Trees, lighting structures, and signs must be at least 10 feet away from all utilities. Review the W-11-2, W17-1, and W16-9P Signs with Flashing Lights that appear to be located overtop of the existing waterline in U.R. Drive south of the tbn magnail in pavement. Review and revise as necessary.

**Sheet C6.0**

10. Review the location of the proposed storm sewer pipe. The storm sewer location appears to be located overtop of the existing 48" force main. Either relocated the storm sewer pipes in another location or shift the storm sewer 15' away from the force main.

**Sheet C9.1:**

11. As previously commented, show all existing water and sanitary sewer utility crossings on the storm sewer profiles. Be sure to show the force main and sewer main crossing STR-EX and STR-1 and the water main crossing STR-3 and STR-4 on the storms sewer profiles.

**General:**

12. Agreements are not required for this project.

If you have any questions concerning the above noted comments or the plans, please contact me at 501-4508 or Bentley Chan at 501-7543.

Sincerely,



Alice Jackson  
Utilities Engineer

cc: John Hoogakker, Andrew McBride – University of Richmond  
bc: R. Claytor  
A. Seal, T. Watkins  
L. Pambid, Planning

ANJ/cww