



COMMONWEALTH OF VIRGINIA
COUNTY OF HENRICO

DEPARTMENT OF PUBLIC UTILITIES

July 22, 2011

ARTHUR D. PETRINI, P.E.
DIRECTOR
(804) 501-4517

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

**RE: BAC VA Greenfield POD
5900 Elko Road
File No. 5067; POD No. 04-011**

Dear Mr. Kreye:

We have reviewed the construction plans submitted to the Planning Department on July 8, 2011.

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 **have not** been executed.

Sheet C3.0A

1. Show the location of the temporary construction meter on the existing conditions and utility plan sheet.
2. Reference the "BAC VA Greenfield Temporary Construction Meter Plan, by Draper Aden & Associates, DWG File No. 2011-052" for information concerning existing utilities.

Sheet C6.0F

3. Since the temporary gravel access rd appears to be too close to the proposed fire hydrant located west of the Generator Building, DPU suggests providing temporary bollards around the fire hydrant.
4. The lead on the dedicated fire hydrant west of the Generator Bldg appears to be too long. Provide a hydrant lead of no more than 30' for the dedicated fire hydrant.
5. The dedicated fire hydrants appear to be too close to the proposed buildings. Fire hydrants should be installed at least 50' from the building. See Sheet C6.0H as well.
6. Consult with Fire to ensure the location of the siamese connection on the Generator Building and Bank of America building is sufficient for protection of the buildings.
7. MH-5 and STR-17 appears to be too close to the dedicated fire hydrant lead. Provide a minimum of 8' off the fire hydrant lead.
8. Provide an 8' separation between the 12" water main near STA: 19+00 and the storm sewer main between STR-5 and STR-6.
9. Provide a note indicating the proposed onsite sanitary sewer main will be private. See profile sheet as well.
10. Be advised, the minimum slope for the run of sewer between the sewer lateral connection and edge of the utility easement is 2.08%. The slope can be decreased to a minimum of 1.04% after the lateral has left the easement or right of way.

Sheet C6.0G

11. The maximum distance from the fire hydrant to the back of curb is 7' in accordance with the fire hydrant detail. Review the proposed fire hydrants shown on the plan.

Sheet C6.0H

12. The size of the sewer main to be installed with the White Oak Technology Park plan appears to be incorrect. Review and revise as necessary.
13. MH-2 appears to be too close to the storm sewer. Provide a 10' separation between the sanitary and storm sewer mains.

Sheet C6.0I:

14. The proposed 8" detector check does not appear to be installed within a utility easement. Provide an easement around the detector check located east of the Bank of America Building.
15. Three detector checks are provided to serve the buildings but only two dedicated fire hydrants and siamese connections are shown plan. For each detector check, there should be a siamese connection and dedicated fire hydrant.

Sheet C9.1:

16. Show the 12" water main crossing between STR-7 and STR-8 on the storm sewer profiles.

Sheet C9.3:

17. There appears to be two 8" water lines between STR-16 and STR-17 on the storm sewer profiles. Review and revise as necessary.

Sheet C9.7:

18. Provide anchors on the sewer with slopes 20% greater in accordance with DPU Standards. Review the run of sewer between MH-2 and the building connection.
19. The size of the sanitary sewer appears to be incorrect between MH-5 and the building connection.

Sheet C9.8:

20. The water profiles between STA: 11+50 and STA: 20+00 does not appear to match what is shown on the utility plan. Review and revise as necessary.

Sheet C9.10:

21. Reference the utility sheet location of where the water main stubs are located for the Water Profiles 3 and 4.

General

22. Provide a note on the plan indicating the cooling towers and tanks will be installed in the future and the water demand has been included in the meter calculations.
23. Agreements have not been executed for this project. The Owner and the County must execute Agreements prior to authorization to proceed with construction of County water and sewer improvements.

Charlie Kreye, P.E.

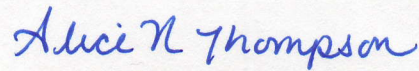
Page 3

July 22, 2011

BAC VA Greenfield POD

If you have any questions concerning the above noted comments or the plans, please contact me at 501-4508, or Alvin Christian, P.E. at 501-4500.

Sincerely,



Alice Thompson
Utilities Engineer

cc: Michael Mace, AIA, Bank of America Corporation, c/o Page Southerland Page, LLP
Toney Hall, Industrial Development Authority, County of Henrico