



COMMONWEALTH OF VIRGINIA  
COUNTY OF HENRICO

DEPARTMENT OF PUBLIC UTILITIES  
Charles B. (Chip) England, PE, MBA  
Director  
804-501-4280

## INTER – OFFICE MEMORANDUM

**TO:** Aimee Crady, Planning  
**FROM:** Ralph Claytor, Public Utilities  
**SUBJECT:** Henrico County Police Evidence Storage Building, POD2019-00078  
**DATE:** March 4, 2019

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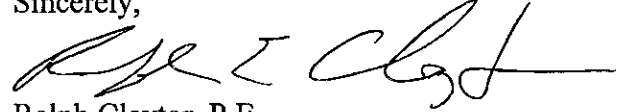
We have reviewed a preliminary plan for the referenced project submitted to the Planning Office on February 13, 2019. This preliminary plan includes a one story 7,350 sf unit building consisting of office and lobby space. Our comments are intended to provide guidance for requirements for design and construction of the water and sewer service that will be provided by the County systems. Construction plans for water and sewer shall be designed in accordance with DPU Standards. The levels of detail provided in the following comments are based on the amount of detail provided on the plan

### General:

1. County sewer is located in Shrader Rd approximately 320' from the building.
2. Sanitary sewer service to the building only requires a 6" lateral.
3. Construction of 365' of 6" lateral is much cheaper than 450' of 8" sanitary sewer main.
4. Your letter indicated the building will be sprinklered; however, no fire service connection is provided.
5. While no fixture value has been provided, we would expect either a 5/8" or 1" meter to be required for the facility of this type.
6. A 6" domestic water service is not required for these size meters.
7. Based on the size and use of the building, we would anticipate no more than two hydrants for fire protection plus one additional hydrant to serve as a dedicated hydrant for the fire system.
8. If connecting to the existing water main in Shrader Rd, we would anticipate approximately 180' of 8" water main will be required.
9. Installing 180' of 8" water main with connection to Shrader Rd is much cheaper than installing 605' of 8" and 6" proposed with your plan.
10. Installation of water and sewer mains across the parking lot will cause significant disruption to both Training Center and Fire & Police Building.
11. Connection to the existing utilities in Shrader Rd will eliminate disruption.
12. Maximum hose lay to building is 350' in accordance with DPU Standards and is not a specification of fire department as indicated in your letter.
13. Fire protection requirements cannot be determined for this project at this time. ISO calculations have not been provided with this plan. Be advised, hydrant locations will be determined after ISO calculations have been provided and reviewed.
14. Meter sizing requirements have not been addressed with this set of plans. Meter calculations will need to be submitted to determine what size meter will adequately serve the proposed building.
15. Construction Plans submitted for review need to be sealed and signed by a Professional Engineer or a Land Surveyor B.
16. Agreements for water and sewer service are not required for this County project.

If you have any questions, please call me at 501-4514 or Alice Thompson at 501-4508.

Sincerely,

A handwritten signature in black ink, appearing to read 'Ralph Claytor', with a long horizontal flourish extending to the right.

Ralph Claytor, P.E.  
DPU Design Division Director

cc: Greg Smith, P.E., Timmons Group

bc: Ralph Claytor  
Alvin Christian  
Alice Thompson  
John Yi

ANT/tt