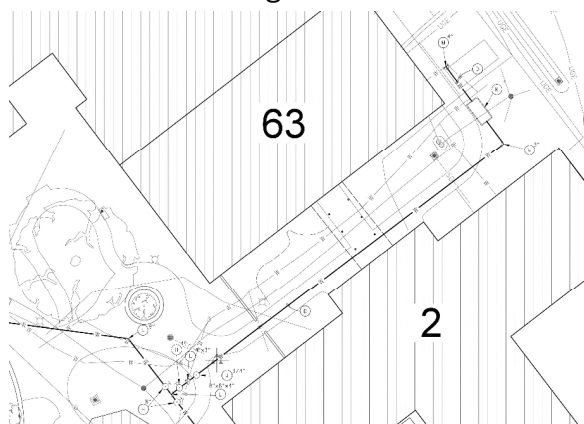


TUSCALOOSA VA QUESTIONS

1. The name indicates that this project includes correcting failing sanitary sewer. Please confirm that sanitary sewer installation and / or repairs are not included in this project. **Sanitary sewer installation and repairs are not a part of this project.**
2. SPECIFICATION SECTION 33.10.00 WATER UTILITIES
 - a. 3.19.A specifies that the hydrostatic testing must be performed prior to backfilling. Is it acceptable to perform the test after backfilling per typical industry standards? **Yes. Hydrostatic testing can be performed after backfilling.**
 - b. 3.19B requires video recording all piping from the building to the municipal connection. This is not a typical requirement for water piping. If required, piping will have to remain open at tee connections and bends to allow for camera inspection. Will video recording of water piping be required? **This is not required.**
3. BACKFLOW / RPZ
 - a. Please confirm that all service Backflow Preventers are RPZ Assemblies with Enclosures. **That is correct. All Backflow Preventer are RPZ Assemblies with enclosures.**
 - b. Is heating required at RPZ locations? **No**
 - c. If heating is required, please confirm source and routing of required power.
4. METER SPECIFICATION 25.10.10
 - a. 2.7.2 states to provide magnetic flowmeters. Please clarify where mag meters are required. **Magnetic and positive displacement flow meters which meet 331000 & 251010 which are Neptune or equivalent can be used for this project.**
 - b. Please clarify the type of meters required at small diameter locations. **See response above.**
5. METER & BACKFLOW SIZING
 - a. There are multiple locations that indicate meters and backflows sized significantly smaller than the service line diameter. Please confirm that our pricing should reflect meters and backflows per the sizing stated in the drawings. **Yes. Use sizes provided, except for Bldg 146 which is 2" BFP Assembly and 1.5" Meter.**
 - b. For example, Building 63 service line, shown below (Dwg C-205)
 - i. 4" branch reduces to a 3/4" Meter, then increases to a 3" PE service, then reduces to a 1" Backflow, then increases to a 3" PE service, then ties into the existing 4" service. **This meter and BFP size are correct.**



6. JACK & BORE

- a. Is there a size and wall thickness requirement for steel casing pipe? **Directional drilling will be used.**
- b. There are several locations that indicate deflection along the casing installation path, which is not possible via Jack & Bore methods. See below example. Please confirm that it is acceptable to utilize Directional Drilling in these areas. **Directional drilling will be used.**

