

PWC Review of the Existing Broadwell Water and Sewer Design

PWC reviewed the preliminary plans provided by Kevin Lindsay. We did find any major design issues that would cause a need for significant revision to the plans. PWC's position on the items requested by Kevin Lindsay is show in red below.

1. Water is SDR 21.
PWC WRE will require the water to be C900. This will result in increased material charges, but no significant change to the design.
2. Water is not under pavement as per DOT.
PWC WRE does not have an issue with this and it will be acceptable as designed outside the pavement.
3. Sewer is SDR 35.
PWC WRE will require the sewer to be SDR-26. This will result in increased material charges, but no significant change to the design.
4. Water is 3' deep vs 3.5.
PWC requirement is for 3.5' bury on water mains. However, PWC WRE is willing to waive this requirement on this project if it causes the need for major design changes.
5. A few of the lines are 6" vs 8".
PWC requirement is 8" minimum. This will result in increased material charges, but no significant change to the design.
6. Sewer lateral are at 1% vs 2%.
PWC requirement is minimum 2% slope for 4-inch sewer laterals. However, PWC WRE is willing to allow 1% slope on 4-inch sewer laterals on this project if it causes the need for major design changes.
7. Water laterals at ¾".
PWC WRE will require the water laterals to be 1-inch instead of ¾-inch. This will result in increased material charges, but no significant change to the design. PWC WRE does not require the use of a 2-inch conduit under the road, so the elimination of the 2-inch conduit could offset some of the increased material charges for the 1-inch laterals.
8. Water meter/sewer lateral locations on lots.
PWC requirement is that water meters and sewer cleanouts be located at the center of lots. However, PWC WRE is willing to waive this requirement on this project if it causes the need for major design changes.