

SECTION 10250 – CONSTRUCTION ACCEPTANCE PROCEDURE

SEWER INSTALLATION

- Sewer must be installed and tested per BCWS specifications. Tests include:
 1. Air Test
 2. CCTV
 3. Manhole Vacuum
 4. Deflection
- Air Test (performed by developer's contractor, with our inspector on-site). Sewer must pass the Air Test prior to acceptance for connections. After the Air Test passes, CCTV is scheduled.
- CCTV (performed by BCWS). The sewer must be cleaned prior to BCWS scheduling a CCTV procedure. This may require the sewer to be jetted. Deficiencies could be such things as: sags in the main, joints not pushed together properly or cracked sewers. Deficiencies are reported in writing to the developer and developers' contractor. BCWS will hold up the development until the deficiencies in the sanitary sewer main are addressed. When the CCTV passes, all bulkheads must be removed by the developer's contractor under the direction of a BCWS inspector.

Note: The inspectors must give a general approval that the sewer has been installed correctly.

- Manhole Vacuum Test (performed by developer's contractor, with our inspector on-site). The vacuum test must be performed satisfactorily prior to our final acceptance at the end of the one (1) year maintenance period.
- Deflection Test (performed by developer's contractor, with our inspector on-site). The deflection test can be performed no sooner than 60 days after the CCTV passes. It must be performed satisfactorily prior to our final acceptance at the end of the one (1) year maintenance period.

WATER INSTALLATION

- Water lines are installed and tested per BCWS specifications. Inspections and tests include:
 1. Water Main Trench to remain open at all bends for BCWS Inspector to locate with GPS
 2. Hydrostatic Pressure Test
 3. Chlorinating Agent Concentration
 4. Bacteriological Quality
- Hydrostatic Pressure Test (performed by developer's contractor, with our inspector on-site). Hydrostatic pressure test must be performed satisfactorily prior to testing the chlorination agent concentration.
- Chlorination Agent Concentration (performed by BCWS). Once the hydrostatic test passes, BCWS takes samples to ensure proper chlorination agent levels. If the levels are not adequate, the developer's contractor is notified to re-introduce a chlorination agent into the line. Upon notification by the contractor, BCWS will re-check the line.

- Bacteriological Quality (performed by BCWS). Once the water mains have passed the requirements for proper chlorination agent concentrations, BCWS performs the bacteriological test. If this fails, BCWS notifies the developer's contractor, in writing, within two business days that the test has failed.

Note: The inspectors must then give a general approval that the water has been installed correctly.

GENERAL ACCEPTANCE

- Once the water and sewer mains have been installed, the developer's engineer can perform the survey needed to gather As-built information. As-builts will be checked for sufficient and accurate information. This information includes:
 - Sanitary
 1. As-built sewer inverts
 2. As-built manhole rim elevations
 3. As-built manhole stations
 4. As-built lateral stations
 5. Calculated minimum basement elevations
 - Water
 1. As-built main line and hydrant valve depths
 2. As-built stations for all appurtenances
 3. As-built water service locations
- Three (3) copies of the Blue Line As-builts shall be submitted to BCWS.
- A 10% maintenance bond and any applicable easements are required before BCWS officially accepts the subdivision section for connections. This is when the maintenance period begins. If the developer is in need of building permits prior to their engineer being able to submit satisfactory As-builts, BCWS may, **at their discretion**, issue release letters for up to 20% of the lots in the section. A release letter will allow a builder to obtain Building & Zoning and Health Department permits at the builder's risk, without a water/sewer permit. Once the water and sewer have been accepted for connections, water and sewer permits can be obtained.

MAINTENANCE PERIOD

- The maintenance bond remains in effect for approximately one (1) year, or until the final inspection passes. If deficiencies are discovered (i.e. sewer blockages, water main breaks) within this period of time, the developer is responsible for the corrections. If the deficiencies require BCWS to act immediately, BCWS will allow the repair to be made and bill the developer for the cost.
- 60 days prior to the end of the one (1) year maintenance period, a letter is sent to the developer and the developer's contractor instructing them to prepare for a final inspection. The bonding company will also be copied on this letter. As soon as we are notified by the developer or contractor that the subdivision project is ready, a final inspection is performed by BCWS staff. The final inspection is a visual only. It does not normally include any testing or CCTV. Any deficiencies are noted on a punch list and sent to the developer, contractor and bonding company. Additional inspections will result in an additional fee of \$100.00 per trip. If the final inspection is not scheduled within 30 calendar days of the end of the one (1) year maintenance period, a second letter will be sent to the developer and contractor indicating that they

have 14 calendar days to schedule and complete the final inspection or submit a new or renewed maintenance bond. If the 14 days passes and the final inspection is not complete, BCWS will proceed with revoking the bond. The bonding company will receive a copy of this letter via certified mail.

- The maintenance bond will remain in effect until all punch list items are remedied. Punch lists typically include, but are not limited to, such things as:
 - Fire hydrants - grade, leak and paint
 - Manhole - grade and condition
 - Water valves - pad, grade, condition and access

As soon as the punch list items are remedied, the Butler County Commissioners release the maintenance bond and it is returned to the developer or contractor.

END OF SECTION