

Basic procedure for watermain replacement

1. Locate all existing utilities (water, sewer, storm, gas, power, communications) and layout new main location
2. Mill or saw cut asphalt
3. Water outage to cap one end of the old main and connect new pipe. Residents are notified the day before.
4. Install new pipe with chlorine tablets and install flushing point at uphill end. This may take several weeks depending on the amount of pipe being replaced.
5. Fill pipe with water and allow 24 hrs for chlorine tablets to dissolve and disinfect pipe.
6. Ck chlorine residual after 24 hrs (50 mg/l minimum for passing disinfection test).
7. Flush high chlorine to sanitary sewer and collect bacti sample (sample must be at normal system level 1.2 mg/l + -).
8. 24 hrs for bacti sample to be complete.
9. Connect residential service lines to new main. These normally take 30 to 45 minutes each and residents are notified as needed.
10. Water outage to connect uphill end of new pipe to system.
11. If new hydrants are planned they may have to be installed after the old main is abandoned due to elevation conflicts from the old main.
12. Asphalt patching of road.