

Public Water System

Pilot Drinking Water Infrastructure Grant

Propose Project Scope

City of Battle Creek will use the Pilot Drinking Water Infrastructure Grant with its annual Service Replacement Program performed by city crews and for Water Main Replacement done by a city contractor.

The Service Replacement Program is in conjunction with the Street Treatment Program where streets with a few lead services (one to five) as identified by the city's GIS mapping are replaced prior to the road treatment. Ahead of the Asset Management Program (AMP), the city went through its water tap cards and identified the material type of water services on the GIS. The water tap cards have found to be accurate and complete from past work. Attached, is a spreadsheet with the number of lead services associated with the 2019 Road Treatment Program.

There are 125 lead services to be replace this season in front of the 2019 Road Treatment Program. Estimate cost is \$4,000/each and includes restoration along with the lead service replacement. City crews will verify that the property side of the curb stop is not lead or galvanized. Historically the private side has not had lead/galvanized service lines, but if found, through this grant the city will coordinate with the property owner to replace this portion of the service to ensure the entire service from main to meter is of approved material.

Water service replacements are based on the type of road treatments and number of lead services in the treatment section per the city's AMP, which can be located at the following link:

<https://battlecreekmi.maps.arcgis.com/apps/MapSeries/index.html?appid=f42c3d3b121c4b779b8e100402f274cc>

The service level of water main in which several water services have been replaced has shown to fail when left in service. This has caused the City of Battle Creek to adopt the policy, which calls for **main replacement** if five, or more lead services are replaced in one block. Mains with more than five lead services should be replaced with the more expensive road treatments that provide a longer life to the road. The city has picked out two roads; Ann Avenue and Foster Avenue, which have a high number of lead services (39 at Ann and 10 at Foster), break histories and scheduled to have the pavement replaced for 2019. Therefore, the city is including replacement of the water main and services for these two roadways at an estimated cost of \$180/foot.