

EXHIBIT A

GENERAL DESCRIPTION OF WORK AND PROJECT

The Project: The project is generally described as **SCP-WS-709, Unplanned Full Lead Service Line Replacement at Various Locations Throughout The City of Detroit**

Scope of Work

The scope of work includes identifying existing Lead (Pb) service lines, meeting with customers to get access and permission to do work on private residential or commercial property, delivering water quality information, replacing existing Lead (Pb) service lines, and recordkeeping. The approximate locations of the replacements that will be assigned to the Contractor will be identified by the Engineer on an “as-needed” basis pursuant to the terms and conditions of the Contract Documents. There is no guarantee as to the number of replacement locations that will be assigned under this Contract. However, about 180 lead service line replacements are expected to be assigned throughout the life of this Contract. A more detailed description of the work is stated in Exhibit A of the Agreement.

The Detroit Water and Sewerage Department (DWSD) has prepared this contract for the purpose of replacing full lead service lines, from the existing water main to the meter inside the home/property, and at locations where unplanned work results in the disconnection of any Lead (Pb) service, on either the private property or within the public Right-of-Way (ROW).

Detroit has an estimated 125,000 lead service lines (LSLs), aged and historically under-maintained water network, and high incidences of water main breaks. Main breaks and service leaks frequently affect LSLs and require disconnecting the LSL to make a repair. Since June 1, 2018, it is DWSD policy to not reconnect a LSL; they must be removed and replaced.

DWSD has developed a robust lead risk mitigation plan that is being implemented as part of our capital and operational activities to protect our customers. DWSD recognizes the potential risks associated with lead in drinking water and takes precautions that include identification and replacement of Lead (Pb) services as part of water main replacement projects, filter distribution, public awareness outreach, and providing flushing instructions during disturbance of existing Lead (Pb) service lines. This contract will be used to implement a new policy to replace full LSLs during unplanned work that results in a disconnection of a LSL including water main breaks, service leaks, and other maintenance issues. Under this new policy, the LSL will be replaced from the water main to the water meter inside the customer’s home.

The contractor will be responsible for following DWSD’s Full Lead Service Line Replacement (FLSLR) Standard Operating Procedures (SOPs) to efficiently, effectively, and safely remove full LSLs. Because this contract will be providing work for unplanned service replacement, the locations of the work are undefined at this time. Also, no design drawings will be provided by DWSD. Based on existing data, DWSD has identified in excess of 800 homes that require FLSLR

due to service leaks, main breaks, or other operational activities. DWSD expects to complete about 180 of these under this contract.

The Work:

1. The general extent of the work included is described in the Section 00030 Advertisement. A more detailed description is as follows:
2. This Contract's primary undertaking is to provide for the full replacement of Lead (Pb) service lines with soft copper tubing of diameters matching services in place. Lead (Pb) service lines to be replaced include: from the water main to the meter inside the home, the portion within the public ROW from the main to the stop box, or from the stop box to the customer meter. The Work may also include locations where unplanned work by DWSD results in the disconnection of any Lead (Pb) service, on either the private property or the public ROW.
3. The work under this Contract includes:
 - a. Inspecting and recording service line data for a distribution system material inventory,
 - b. Collecting homeowner signatures on water service replacement agreements,
 - c. Providing lead removing filters, water quality information, and flushing instructions to affected residents,
 - d. Coordinating with DWSD Meter Ops to ensure the worksite has a functioning water meter,
 - e. Full lead service line replacement inclusive of chlorination and flushing of new services per AWWA standard,
 - f. Ongoing and redundant customer contact procedures for hard to reach residents and owners,
 - g. Updating customer and service line records through a mobile device Collector App
 - h. Detailed recordkeeping and reporting of project costs,
 - i. Site restoration including all lawns, pavement, and other site features as encountered,
 - j. Notifying customers of service line material and service warranty,
 - k. Maintaining the service warranty for one year from the installation date,
 - l. Establishing a comprehensive project record of work completed under this contract.
4. Type of work and interferences that the Contractor may encounter and which shall be considered in the evaluation and included in Unit Prices are as follows but are not limited thereto:
 - a. Driveways, porches, landscaping, or trees that interfere with the replacement of the service line

- b. Customers or landlords that are difficult to reach or identify, requiring multiple phone calls and visits
 - c. Finished basements that must be restored to pre-construction conditions after work is complete
 - d. During wintertime operations, removal of surface ice, snow, and depth of frost which is over or in close proximity to the replacement location
 - e. Snow and ice removal and salt-down of areas to make locations safe
5. The Contractor is responsible for permanent restoration of the ROW in accordance with the requirements of these Contract Documents.
6. The Contractor may be assigned Lead (Pb) service line replacement tasks during nonstandard hours including weekends, not on an emergency basis but to accommodate residents' schedules. The Contractor is to make available the required crew(s) to perform any service line replacement assigned by DWSD to the Contractor during off hours and/or during weekends and Holidays. All such assigned work shall be paid on the basis of the Contract Unit Price and at no additional cost to the City.
7. At the time of assignment, DWSD will designate a priority for each lead service line replacement location. The Contractor shall work the locations in the order of priority assigned. Priority of service line replacement location may change on a daily basis and DWSD reserves the right to reassign priority or to redirect the Contractor's crew.
8. The Contractor shall be required to furnish the copper service and all incidental materials for the work, including (but not limited to) Corporation Stops, Copper Tubing Adaptors, Curb Stops, Stop Boxes, and any appurtenances necessary for proper completion of this work.
9. For all employees who will enter customer homes, the Contractor will provide background checks for all employees for DWSD approval prior to commencing work.
10. The Contractor shall employ a licensed plumber to make all connections to household/building water systems. The Contractor shall meet all plumbing permit requirements; permit costs shall be incorporated into the water service replacement unit rate.

Additional Scope of Work details and specifications are contained in Exhibit B.1.

Key Dates

Final Completion shall be within Six (6) Months from the date when the Contract Time commences to run.

(End Exhibit A – General Description of Work and Project)

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