

July 15, 2020

**ADDENDUM NO. 2**

**ENG20-04 As-Needed Lead Service Line Replacements**

Notice is hereby given that the following additional information and changes shall become part of the specifications of the above referenced contract. You are to acknowledge the addenda on the Proposal Sheet.

- 1) The Special Provision for Water Service Lines, Two-inch Diameter or Less dated 07-13-18 (3 pages) is removed from the proposal and replaced with the attached Special Provision for Water Service Lines, Two-inch Diameter or Less dated 04-29-20 (4 pages).

END OF ADDENDUM

CITY OF JACKSON, MICHIGAN  
SPECIAL PROVISION  
FOR  
**WATER SERVICE LINES, TWO-INCH DIAMETER OR LESS**

Jackson: TRW

1 of 4

04-29-20

**a. Description.** This work shall consist of installing copper water service lines of the required diameter from curb stop box in the public right-of-way to an existing water distribution system within a building.

**b. Materials.** Materials shall meet the requirements of the latest edition of the Michigan Plumbing Code as referenced in Article V, Chapter 5 for the City of Jackson Code of Ordinances. The manufacturer shall supply a sworn statement (certification) that all pipe, valves, fittings, gaskets and all appropriate appurtenances furnished comply with NSF/ANSI Standard 61. Catalog cuts for all materials to be installed shall be provided to the Engineer for review at the pre-construction meeting. No materials shall be installed prior to the approval of the catalog cuts by the Engineer.

Water service pipe: Water service pipe between the curb stop box and the water meter shall be ASTM-B88 Type-K soft temper copper (Cu) tubing.

Valves: Valves on the water distribution piping shall be full-flow ball-type with brass housing meeting the approval of the City of Jackson Plumbing Inspector.

Water penetration sleeve: At the entrance point to a building, water service pipe shall pass through a sleeve of Schedule 40 PVC pipe so as to inhibit contact between the water service pipe and the building's stone, block and/or masonry basement wall.

Backfill: Backfill of water service piping shall be Granular Material Class II.

**c. Installation.**

All pipe, fittings, valves and meters shall be installed in accordance with the Michigan Plumbing Code and the conditions, guidelines and requirements of the City of Jackson Plumbing Inspector and the required Plumbing Permit for alterations to a building's interior water system. Said Plumbing Permit shall be obtained from City of Jackson Department of Neighborhood and Economic Operations-Inspection prior to the start of work on the water service. A separate permit shall be obtained for each impacted building. Additional requirements are as shown on the construction plans and as stated herein.

The finished water service pipe shall be continuous copper from the curb stop to the first shut-off valve inside the building or to 18 inches inside the building, whichever is shorter. Any water service pipe of a material other than copper is prohibited.

Prior to the start of any exterior work on the downstream side of the curb stop box, a minimum notice of 48-hours shall be provided to the impacted property owner.

The Contractor shall schedule and coordinate all work on the interior of a building with the impacted property owner.

Water service pipe between the curb stop box and the building shall be installed in accordance with the Water Main Trench Detail contained on the Water Details Sheet of the plan set.

Water service pipe shall enter the building through a sleeve of Schedule 40 PVC pipe within a drilled or cored hole through the basement wall. The nominal diameter of the sleeve shall be one-half inch larger than the nominal diameter of the water service pipe. The nominal diameter of the cored or drilled hole shall be one-half inch larger than the nominal diameter of the sleeve pipe. The sleeve shall be firmly mortared into place. The space between the water service pipe and the sleeve shall be filled with a water-tight foam insulator.

When the installation of a water meter is called for in the plans, it shall be located as near to the point where the service pipe enters the basement as possible. A valve shall be installed on each side of the meter. Water meter installation shall be scheduled and coordinated with and subject to inspection and approval by the City of Jackson Water Meter Shop.

Upon completion of the installation of the water meter, the contractor shall coordinate with City of Jackson Meter Shop staff for the installation and programming of the Radio Reading Device.

Existing service lines shall be abandoned by closing the curb stop and removing the box. When located in a paved area or immediately adjacent to a structure, the box shall remain in place but be filled with concrete. The abandoned service line upstream of the meter shall be cut as close to its wall penetration point as possible and a water-tight cap installed.

Existing meters that are removed shall be returned to the City of Jackson Water Meter Shop at 517 Water Street. The abandoned service line upstream of the meter shall be cut as close to its wall penetration point as possible and a water-tight cap installed.

Throughout the water service replacement process, the electrical system within the subject building shall be bonded to a water service or be grounded temporarily to grounding rods. After the installation of the replacement water service is complete, the main electrical service disconnect in the subject building shall be bonded to the replacement service in accordance with the Michigan Electrical Code. This work shall be performed regardless of the condition or level of code compliance of the preconstruction bonding conductors and connections and appurtenances.

All work to the electrical system and associated bonding conductors and connections shall be performed in accordance with the Michigan Electrical Code and the conditions, guidelines and requirements of the City of Jackson Electrical Inspector and the required Electrical Permit for alterations to a building's interior electrical system. Said Electrical Permit shall be obtained from City of Jackson Department of Neighborhood and Economic Operations-Inspection prior to the start of work

on the water service. A separate permit shall be obtained for each impacted building. Additional requirements are as shown on the construction plans and as stated herein.

**d. Measurement and Payment.** The completed work, as described, will be measured and paid for at the contract unit price for the following pay items:

<b>Pay Item</b>	<b>Pay Unit</b>
Bond Restoration.....	Each
Electrical Permit Acquisition and Compliance .....	Each
Plumbing Permit Acquisition and Compliance .....	Each
Water Meter .....	Each
Water Meter Acquisition and Radio Reading Device Coordination .....	Each
Wall Penetration Sleeve, Sch 40 PVC, ___ inch .....	Each
Water Service, Abandon, Two-inch Diameter or Less.....	Each
Water Service Pipe, Cu, ___ inch .....	Foot

**Bond Restoration** includes all work and materials necessary to 1) ensure that the impacted building’s electrical system remains bonded to a water service pipe or grounded to temporary grounding rods throughout the water service replacement process and 2) to bond, after the water service replacement has been completed, the main electrical service disconnect within the subject building to the newly installed replacement water service in accordance with the conditions and requirements of the Electrical Permit. Payment for one unit of this item shall be made for each Electrical Permit obtained by the Contractor.

**Electrical Permit Acquisition and Compliance** provides compensation to the Contractor for all work and costs associated necessary to obtain an Electrical Permit from the City of Jackson Department of Neighborhood and Economic Operations and to comply with its conditions, guidelines and requirements. Payment for one unit of this item shall be made for each Electrical Permit obtained by the Contractor.

**Plumbing Permit Acquisition and Compliance** provides compensation to the Contractor for all work and costs associated necessary to obtain a Plumbing Permit from the City of Jackson Department of Neighborhood and Economic Operations and to comply with its conditions, guidelines and requirements. Payment for one unit of this item shall be made for each Plumbing Permit obtained by the Contractor.

**Water Meter** includes payment to install a water meter horn and water meter and a valve of equal nominal size on each side of the meter horn. The water meter horn and water meter will be supplied by the City of Jackson Meter Shop to the contractor. Payment for the Water Meter item includes the valves on each side of meter horn and all fittings, bends, nipples and adaptors necessary to install the

valves, meter horn and meter. Payment for one unit of this item shall be made for each Plumbing Permit obtained by the Contractor.

**Water Meter Acquisition and Radio Reading Device Coordination** includes payment for all work and costs associated with obtaining a meter horn and meter from the City of Jackson Meter Shop at 517 Water Street and coordinating with Meter Shop staff for the installation and programming of the Radio Reading Device by Meter Shop staff at the time that the new meter is installed. Payment for one unit of this item shall be made for each Plumbing Permit obtained by the Contractor.

**Wall Penetration Sleeve, Sch 40 PVC** includes providing and installing a sleeve of the specified diameter and includes payment for coring or drilling through a stone, concrete or masonry wall regardless of thickness, and providing and placing any necessary mortar and foam insulator.

**Water Service Pipe, Abandon, Two-inch Diameter or Less** includes payment for all work to close the existing curb stop, remove the existing stop box or fill it with concrete, and remove the existing service pipe to its entry point into the building. Payment also includes, when applicable, the return of the meter that has been removed from service to the City of Jackson Meter Shop at 517 Water Street.

**Water Service Pipe, Cu** of the size specified will be measured in place by length in feet from the center of the curb stop box to the center of the water meter. Payment includes providing and installing copper pipe, excavating, backfill with Class II sand or approved on-site material and any fittings required to connect the new Water Service Pipe to the curb stop box and meter. This item includes hand digging in the vicinity of the building to preserve and protect plantings and the salvaging and replanting of plants.