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TRANSMITTAL COVER SHEET

DATE: FEBRUARY 6, 2024
TO: ALL CONTRACTORS
FROM: JOSH PIERCE, P.E.
PROJECT: 2022 CWSRF SANITARY SEWER SYSTEM REHABILITATION
FOR THE
TOWN OF AKRON
CWSRF PROJECT No.: CS010902-01
GMC PROJECT No. CMGM220149(1)
RE: ADDENDUM #1

PLEASE COMPLETE BELOW AND RETURN IMMEDIATELY.

I, the undersigned, hereby acknowledge receipt of this Addendum.

Authorized Representative of Contractor

Date

Company Name

Telephone

Fax

Contractor's License Number (if applicable)



ADDENDUM NUMBER 1

2022 CWSRF SANITARY SEWER SYSTEM REHABILITATION

FOR THE

TOWN OF AKRON

CWSRF PROJECT NO.: CS010902-01

GMC PROJECT NO. CMGM220149(1)

1. Revisions to Project Manual

1.1 The following revisions are hereby added as Addendum No. 1 to the referenced Project Manual and Plans and shall be considered when preparing bids.

2. Specifications

2.1 Specification Section 33 01 30.41 Cleaning of Sewers shall be added to the Project Manual.

3. Acknowledgement

3.1 Receipt of Addendum shall be acknowledged in two ways:

3.1.1 Note on (EJCDC C-410) page 3 of Bid Form of the Project Manual – Bidder acknowledges receipt of “Addendum No. 1” and date of “February 6, 2024”.

AND

3.1.2 EMAIL Acknowledgement to patsy.stinson@gmcnetwork.com and confirm that addendum has been received and is legible.

4. Conclusion

4.1 This is the end of Addendum Number 1, dated Tuesday, February 06, 2024.

SECTION 33 01 30.41 - CLEANING OF SEWERS

PART 1 - GENERAL

1.01 DESCRIPTION

A. Scope

1. This section specifies the requirements for cleaning of sewers prior to television inspection and rehabilitation.

B. Requirements

1. The Contractor shall clean the sewers specified for television inspection and rehabilitation of debris, roots, and grease accumulations. All materials dislodged during cleaning shall be removed from the sewer and disposed of by the Contractor. Sewer cleaning methods shall include water jetting, rodding, pigging, or bucketing.
2. Television inspection is not required during cleaning operations. However, the Contractor may, at his own expense, inspect the sewer to view current line conditions.

1.02 MAJOR BLOCKAGE

1. A major blockage shall be defined as an obstruction within the sewer which cannot be removed by cleaning with commercially available hydraulic or mechanical cleaning equipment. Removal of a major blockage shall be by point repair is subject to approval of the Owner.

PART 2 - MATERIALS

2.01 EQUIPMENT

A. General

1. All equipment specified in this section shall be in good working condition and manufactured or fabricated to withstand the severity of the work covered under this section.

B. Hydraulic and Mechanical Cleaning

1. All hydraulic cleaning equipment shall be truck mounted. Water jet cleaning equipment shall include a water tank, auxiliary engine, pumps, and hydraulically driven hose reel. The Contractor shall provide a minimum of 600 feet of high-pressure hose and a selection of high velocity nozzles, each having a capacity of 60 gallons per minute at working pressures of 1000 to 1500 pounds per square inch. Pressure to the nozzle shall be regulated by a relief valve adjustable from 1 to 1500 psi. Nozzles shall be capable of producing a jet stream angle of 15 to 45 degrees from the horizontal. The Contractor shall also provide a high velocity gun with sufficient discharge and pressure to thoroughly clean manhole interiors.
2. Sewer pigs which are propelled by water shall be readily collapsible at any time during the

- cleaning operations to protect against flooding of the sewer lines. The Contractor shall provide pigs in sizes consistent with the pipe diameters encountered. Each pig shall have a flexible scraper at its periphery to ensure the total removal of grease. Sewer pigs which are not readily collapsible are prohibited.
3. Mechanically powered equipment such as bucket machines shall be provided in pairs and shall be belt-driven or employ an overload device. Power rodding machines shall be a "continuous rod" type capable of rodding distances of up to 1000 feet in one setup. Rodding machines shall have the ability to spin the rod either clockwise or counterclockwise and be able to be pushed straight out or pulled back without rotating the machine. It shall be capable of pulling pipe-size swabs or brushes back through the sewer for cleaning and flushing purposes. The rodding machine shall have a positive drive and shall be capable of producing a 2000-pound pull. The rod shall be specifically designed for use with the rodding machine.
- C. Root Removal
1. The Contractor shall employ sewer cleaning equipment to cut all roots encountered back to the pipe surface.
- D. Debris Removal
1. The Contractor shall provide suitable equipment to remove all debris dislodged during cleaning operations from the nearest downstream manhole. All debris shall be promptly removed from the sewer from the nearest manhole and shall be disposed of off-site in a lawful manner at an Owner-approved location.

PART 3 - EXECUTION

3.01 GENERAL

- A. The Contractor shall at all times conduct his work so as to prevent any blockage and minimize surcharging in the sewer manholes and connecting sewer pipelines. Damage to existing facilities as a result of the Contractor's work shall be promptly repaired in kind at the Contractor's expense.

3.02 SEWER BYPASSING AND DEWATERING

- A. Contractor shall be responsible for bypassing sewer flow around his work and dewatering of sewer lines.

3.03 CLEANING

- A. Cleaning shall remove all sludge, rocks, debris, roots, grease accumulations and obstructions from the sewer. Sewer cleaning methods may include water jetting, rodding, pigging, or bucketing. Unless otherwise directed by the Engineer, the Contractor shall select the most effective of these cleaning methods according to the prevailing site condition. Where bucketing is warranted, bucket machines shall be used to remove the major portion of debris. Bucket operations shall proceed in the upstream direction in one sewer reach at a time. The operation shall continue until the buckets

can pass the entire reach with minimum collection of debris. Upon completion, the line shall be cleaned using a sewer pig and then hydraulically cleaned.

- B. During cleaning operations, the Contractor shall provide a means of catching and removing the dislodged debris conveyed downstream with the sewer flow. The method chosen shall not allow the transport of debris to downstream sewer reaches.

3.04 RECLEANING

- A. Where the sewer is not adequately cleaned as determined by the Engineer through pre-rehabilitation television inspection review, Contractor shall remove all equipment or materials from the sewer and reclean the sewer at no additional expense to the Owner.

3.05 TAG LINES

- A. The Contractor may install a tag line after cleaning for later TV inspection equipment connections. However, the tag line shall not be left in the sewer longer than overnight. This allowance may be rescinded by the Engineer at any location if unacceptable procedures are used by the Contractor to secure the tag line. Damage caused by sewage backup due to the tag line shall be the responsibility of the Contractor.
- B. The following items of work will not be measured for payment, but the cost thereof will be considered as incidental to the contract:
 - 1. Removal and disposal of debris
 - 2. Sewer bypassing
 - 3. Recleaning

END OF SECTION 33 01 30.41

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