

## LETTER OF TRANSMITTAL

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FROM: John King, P.E.

DATE: August 24, 2023

PROJ. NO.: K22004

SUBJECT: Addendum No. 1  
Department of Water Quality Control, Cookeville, TN  
2021 Cookeville CDBG Sewer System Improvements, 33002-32022

PAGES: 4 pages to follow

<b>PLEASE RESPOND</b> → → → →	<b>TO CONFIRM RECEIPT OF THIS ADDENDUM NO. 1 PLEASE SIGN AND EMAIL TO CTI</b> <a href="mailto:awilliams@ctiengr.com">awilliams@ctiengr.com</a>
	Company _____
	Signature _____
	Title _____
	Date _____

ID 746095

ADDENDUM NO. 1

CONTRACT DOCUMENTS, SPECIFICATIONS, AND DRAWINGS  
FOR THE  
COOKEVILLE SEWER SYSTEM IMPROVEMENTS, CDBG NO. 33004-32022

The following changes shall be made to the Contract Documents, Specifications, and Drawings.

I. CONTRACT DOCUMENTS

- A. **Section 00 42 00 – Bid Schedule.** . DELETE page 00 42 00-3 and REPLACE with attached page 00 42 00-3.1.

II. SPECIFICATIONS

- A. **Section 33 01 36 – Technical Specifications for the Rehabilitation of Sanitary Sewer Manholes Using Spray Applied Protective Coating.** DELETE pages MHTS-9 of 10 and MHTS-10 of 10 and REPLACE with attached pages MHTS-9.1 of 10 and MHTS 10.1 of 10.

III. DRAWINGS

A. **Drawing No. 4.0 – PUMP STATION DEMOLITION & TOP PLAN**

1. ADD the following note after NOTE 3.:

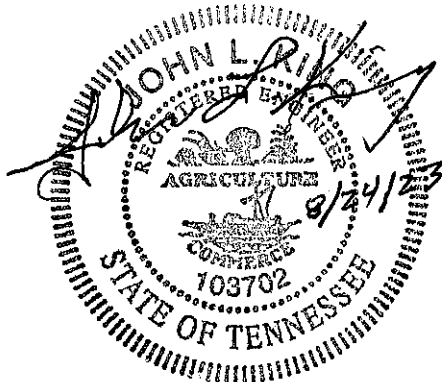
“4. REHABILITATE THE EXISTING WETWELL IN ACCORDANCE WITH SPECIFICATION SECTION 33 01 66. COSTS SHALL BE INCLUDED IN SCHEDULE 1 FOR THE LUMP SUM BID OF THE PUMP STATION.”

B. **Drawing No. 5.0 – PUMP STATION PLAN AND ELEVATION**

1. DELETE NOTE “4” regarding interior wall coating of the wetwell and valve vault.

Date: August 24, 2023

CTI Engineers, Inc.  
/s/ John L. King, P.E.  
Senior Project Manager



<b>TOTAL: SCHEDULE V – DOWNTOWN (Ward Street)</b>		
_____ Dollars _____ Cents		\$ _____

**SCHEDULE VI - Maxwell St and Hughes St Area**

Item No.	Description	Unit	Est. No. of Units	Unit Price	Item Total
201	Manhole Rehabilitation: Rehabilitate 4'-0" I.D. Standard Manhole (0'-6') in Depth, including all leak repair and preparation work, etc.	EA	4		
202	Manhole Rehabilitation Extra Depth: Rehabilitate 4'-0" I.D. Manhole (Extra Cost for MH's Greater Than 6' in Depth).	LF	1		
301	Clean, TV, and Install CIPP: Line 8" I.D. Pipe Using Cured-In-Place Materials, Including Providing Pre- and Post-Video (Flash Drive) to the City and All Incidentals Associated with the Cleaning, Televising, and Installation of the Lining Including Reinstating Service Connections.	LF	1,250		
302	Lateral Replacement: Replace 20 LF of 6" SDR-26 PVC lateral service line including cleanout, reconnection to main or manhole and service piping,	EA	8		
303	Additional Service Lateral: Replace additional service lateral with 4" SDR-26 PVC service line in excess of the 20 LF required in 302 above.	LF	26		

<b>TOTAL: SCHEDULE VI – Maxwell St and Hughes St Area</b>		
_____ Dollars _____ Cents		\$ _____

**TOTAL BASE BID**

<b>TOTAL: BASE BID (SCHEDULE I, II, III, IV, V, &amp; VI)</b>		
_____ Dollars _____ Cents		\$ _____

**DEDUCTIVE ALTERNATES (MUST MATCH TOTALS OF ITEMS FROM THE SCHEDULES)**

<b>D-1</b>	Deduct Items 201 and 202 from Schedules II, III, IV, V, and VI.	TOTAL	\$ _____
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<b>TOTAL: BASE BID LESS D-1</b>		
_____ Dollars _____ Cents		\$ _____

- B. Where the manufacturer recommends against the use of wet film thickness gage measurements due to quick material cure times, follow the manufacturer's recommendations for determination of final coating thicknesses. Provide manufacturer's recommendations with submittals.
- C. Manhole Vacuum Testing: Designated Manholes shall be vacuum tested by the contractor in the presence of the Owner. The coating must have been in place for at least 24 hours prior to vacuum testing. All pipes entering the manhole should be plugged, taking care to securely place the plug from being drawn into the manhole. The test head shall be placed and the seal inflated in accordance with the manufacturer's recommendations. A vacuum pump of ten (10) inches of mercury shall be drawn and the vacuum pump shut off. With the valves closed, the time shall be measured for the vacuum to drop to nine (9) inches. Following are minimum allowable test times for manhole acceptance at the specified vacuum drop:

<b>MANHOLE DEPTH</b>	<b>TIME TO DROP 1" HG</b>
4 ft to 10 ft	60 seconds
10 ft. to 15 ft.	75 seconds
15 ft. to 25 ft.	90 seconds

If the manhole fails the initial test, repairs and adjustments necessary due to extenuating circumstances (i.e. pipe joint, liner, plug sealing) should be made. Re-testing shall proceed until a satisfactory test is obtained. The Owner will witness the testing and retesting of these initially designated manholes at no cost to the contractor.

If in the opinion of the Engineer, an excessive number of the designated manholes fail the initial vacuum test, the Engineer may pick another representative sample for testing or require that all manholes be tested. If due to a high failure rate it is determined that all manholes need to be tested, it is recommended that the contractor pre-test all manholes as the Owner will charge an inspection fee of \$50.00 per hour for all retesting of failed manholes after the initial representative sampling.

- D. High Voltage Holiday Detection: Where the coating manufacturer recommends high voltage holiday detection testing in lieu of vacuum testing, follow the manufacturer's recommended procedures and voltages for holiday detection. Provide manufacturer's recommendations with submittals.
- E. A final visual inspection shall be made by the Inspector and Contractor's representative. Any deficiencies in the finished coating shall be marked and repaired according to the procedures set forth herein by Applicator.

### 3.9 GROUTING MANHOLES

- A. Manhole grouting to stop leaks requires drilling grout injection holes in the manhole in strategic locations to cease Inflow/Infiltration from coming through cracks and other defects in the wall and inject hydrophilic grout. Grout shall be injected through the drilled holes using the recommended probe and applying pressures that will effectively inject the grout but, not cause damage to the

manhole structure or the surrounding area. Grout typically, shall be injected through the lowest holes first, working the grout higher until the manhole is externally sealed with grout. Additional holes may be required to verify that the grout has encompassed the entire outside of the manhole. All grouting work shall be in accordance with the recommendations of the grout manufacturer.

- B. Grouting manholes around 30" pipe is to use a cementitious grout such as Thoroc Plug, or engineer approved equal, as shown on the detail. This grout shall be mixed and used in accordance with the manufacturer's instructions. The grout is to be placed in the annular space between the pipe and the concrete manhole and be against the rubber boot to stabilize it from water pressure on the outside of the manhole. Payment is per 30" pipe penetration grouted around.

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#### **PART 4 – BASIS OF PAYMENT**

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##### 4.1 BASIS OF PAYMENT (See also "Payment" in the Supplementary General Conditions)

- A. Payments for the work included in this section will be in accordance with the prices set forth in the proposal for the quantity of work performed and will be processed as detailed in the General Conditions. Progress payments will be made with a 5% retainage held until completion of the project.
- B. Measurement of manhole depths will be from the lowest invert to the bottom of the casting. Measurements will be rounded to the nearest 0.25 feet.
- C. Final Payment will not be made until a final inspection is made and all areas in the work zone are clean and any damaged yards are restored.