ADDENDUM No. 1

RFP – 23-41

2023 SEWER LINING PROJECT

Bids Due: September 7, 2023 by 3:00 p.m. (Local Time)

The information contained herein shall take precedence over the original documents and all previous addenda (if any), and is appended thereto. **This Addendum includes 11 pages.**

The Proposer is to acknowledge receipt of this Addendum No. 1, including all attachments in its Proposal by so indicating in the proposal that the addendum has been received. Proposals submitted without acknowledgement of receipt of this addendum may be considered non-conforming.
The following forms provided within the RFP Document should be included in submitted proposal:

- **Attachment D - Prevailing Wage Declaration of Compliance**
- **Attachment E - Living Wage Declaration of Compliance**
- **Attachment G - Vendor Conflict of Interest Disclosure Form**
- **Attachment H - Non-Discrimination Declaration of Compliance**

Proposals that fail to provide these completed forms listed above upon proposal opening may be rejected as non-responsive and may not be considered for award.

I. CORRECTIONS/ADDITIONS/DELETIONS

Changes to the RFP documents which are outlined below are referenced to a page or Section in which they appear conspicuously. Offerors are to take note in its review of the documents and include these changes as they may affect work or details in other areas not specifically referenced here.

Section/Page(s)	Change/Addition
Pager 16-17 Section E	Schedule of Pricing/Cost Forms; replace with pages Addendum 1-3 to 4
Detailed Specifications	Add Detailed Specification for Sewer Video Inspection. Pages Addendum 1-5 to 8
Detailed Specification for General Conditions, Modified, Maximum $100,000 Page DS-11	Add the following item: "The City will prepare Work Orders through CityWorks. The Contractor shall download the CityWorks 11 app for Apple/Android device. All work will be assigned and managed through CityWorks."

II. QUESTIONS AND ANSWERS

The following Questions have been received by the City. Responses are being provided in accordance with the terms of the RFP. Respondents are directed to take note in its review of the documents of the following questions and City responses as the affect work or details in areas sot specifically referenced here.

Question 1: Are recent CCTV files available for the lines expected to be rehabilitated?

Answer 1: Some lines have been recently televised, this information will be available to the contractor.

Question 2: Will the Owner provide lining table showing MH numbers, segment diameters and length?

Answer 2: The lining table is included in this addendum.

Question 3: Will the city or engineering firm locate the buried manholes or provide gps coordinates?

Answer 3: It is contractor's responsibility to locate the buried manholes, however the City of Ann Arbor will provide assistance when possible.

Question 4: Which manholes are scheduled for lining, chimney seals and channel reconstruction? Do all the Manholes in the CIPP lines to be rehabilitated?

Answer 4: The condition of the manholes to be evaluated in order to make this decision.

Question 5: Would the Owner allow a different product to be used for chimney seal if the one specified is no longer available?

Answer 5: The contractor can provide an alternative product for Engineer's review.

Question 6: Will specific hydrants be designated or will any available hydrant be ok to use? Will contractor be charged for water usage?

Answer 6: The use of City of Ann Arbor hydrants will be allowed and would need to be coordinated with the City of Ann Arbor Field Services Department. The contractor will not be charged for water usage.

Question 7: Will night work be approved on certain shots i.e. Downtown?

Answer 7: The afterhours work including nights and work on Sundays would require an approval by City of Ann Arbor Administrator.

Offerors are responsible for any conclusions that they may draw from the information contained in the Addendum

BID FORM
Section 1 - Schedule of Prices
Project: RFP 23-41 - 2023 Sewer Lining Project

LINE No.	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	AMOUNT ($)
130	Protective Fencing	LF	100	$	$ -
140	Exploratory Excavation (0-10' deep), Trench Detail - Type I Modified	EA	3	$	$ -
141	Exploratory Excavation (0-10' deep), Trench Detail - Type IV	EA	3	$	$ -
200	General Conditions, Modified, Maximum $100,000	LS	1	$	$ -
201	Project Supervision, Modified, Maximum $50,000	LS	1	$	$ -
202	Audiovisual Tape Coverage, Modified	LS	1	$	$ -
203	Minor Traffic Control, Modified, Maximum $100,000	LS	1	$	$ -
204	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	EA	10	$	$ -
205	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	EA	10	$	$ -
206	Channelizing Device, 42 inch, Furn	EA	100	$	$ -
207	Channelizing Device, 42 inch, Oper	EA	100	$	$ -
208	Lighted Arrow, Type C, Furn	EA	4	$	$ -
209	Lighted Arrow, Type C, Oper	EA	4	$	$ -
210	Plastic Drum, High Intensity, Lighted, Furn	EA	100	$	$ -
211	Plastic Drum, High Intensity, Lighted, Oper	EA	100	$	$ -
212	Sign, Type B, Temp, Prismatic, Furn	SF	1,250	$	$ -
213	Sign, Type B, Temp, Prismatic, Oper	SF	1,250	$	$ -
214	"No Parking" Sign	EA	50	$	$ -
215	Sewer Flow Control	LS	1	$	$ -
217	8 inch Diameter CIPP Sewer Lining	LF	17,963	$	$ -
218	10 inch Diameter CIPP Sewer Lining	LF	1,095	$	$ -
219	12 inch Diameter CIPP Sewer Lining	LF	3,628	$	$ -
220	15 inch Diameter CIPP Sewer Lining	LF	351	$	$ -
221	18 inch Diameter CIPP Sewer Lining	LF	470	$	$ -
225	30 inch Diameter CIPP Sewer Lining	LF	312	$	$ -

Total This Page **$**

BID FORM
Section 1 - Schedule of Prices
Project: RFP 23-41 - 2023 Sewer Lining Project

LINE No.	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	AMOUNT ($)
228	Rem. Concrete Curb or Curb and Gutter, Any Type, Modified	LF	100	$	$ -
229	Rem. Concrete Sidewalk, Ramp and Drive, Any Thickness, Modified	SFT	100	$	$ -
230	Aggregate Base	TON	100	$	$ -
231	Hand Patching	TON	100	$	$ -
232	Concrete Curb or Curb & Gutter – Any Type	LF	100	$	$ -
233	4” Concrete Sidewalk, Modified	SFT	50	$	$ -
234	6” Concrete Sidewalk, Ramp, Drive Approach, Modified	SFT	50	$	$ -
235	6” Concrete Sidewalk, Ramp, Drive Approach, High Early	SFT	50	$	$ -
236	Concrete Type M Drive Opening, High Early	LF	50	$	$ -
237	Inlet Filter, Special	Each	25	$	$ -
238	Level 2 MACP Inspect Manhole	EA	50		$ -
239	Internal Chimney Seal	Each	50	$	$ -
240	Reconstruct Flow Channel	Each	50	$	$ -
241	Manhole Cementitious Liner	Vf	100	$	$ -
242	Clean-Up & Restoration, Special	LS	1	$	$ -
243	Certified Payroll Complianace and Reporting	LS	1	$	$ -
305	8" SDR 26 PVC Sewer, Trench Detail - Type I Modified	LF	100	$	$ -
306	10" SDR 26 PVC Sewer, Trench Detail - Type I Modified	LF	100	$	$ -
307	12" SDR 26 PVC Sewer, Trench Detail - Type I Modified	LF	100	$	$ -
308	15" SDR 26 PVC Sewer, Trench Detail - Type I Modified	LF	50	$	$ -
309	18" SDR 26 PVC Sewer, Trench Detail - Type I Modified	LF	50	$	$ -
311	30" SDR 26 PVC Sewer, Trench Detail - Type I Modified	LF	50	$	$ -
353	4" SDR 35 PVC Service Lead	LF	100	$	$ -

Total This Page $ -

Total From BF-1 $ -

Total Base Bid **$ -**

DETAILED SPECIFICATION
FOR
SEWER VIDEO INSPECTION

DESCRIPTION

This work shall consist of internal inspection of sewer via Closed Circuit Television (CCTV). The inspection shall include providing the City with digital videos, images, reports and associated databases that include condition and other descriptive data related to the sewer.

The Contractor performing the work shall be a company specializing in performing internal sewer inspections, and shall have a minimum experience of at least three other projects of similar size and scope within the last five years that included surveying, processing, and interpretation of data associated with CCTV inspections. The Contractor shall assign a Crew Chief with a minimum of 5years' experience on projects similar to this Project and experienced using proposed inspection equipment for this Project. If experience level cannot be met because of new equipment or technology proposed for Project, then submit training and experience information for consideration.

All inspection and recording of sewer features and condition shall be in accordance with National Association of Sewer Service Companies' (NASSCO) standards. The work shall be performed under the supervision of personnel trained and certified in the use of the Pipeline Assessment and Certification Program (PACP) for the inspection of sewer mains and Manhole Assessment and Certification Program (MACP) for the inspection of manholes.

The Contractor's television inspection software shall be IT Pipes, Pipelogix or equal as approved in advance by the City.

Submittals

Prior to initiation of work, the Contractor shall submit for City review and approval the following:

1. Data sheets for proposed CCTV equipment, description of proposed electronic storage device (flash drive, cloud server, etc.) and proposed electronic file formats.
2. Description of proposed software for recording inspection logs along with a sample of a typical log and all reports as specified.

All sewer video inspections shall be recorded in H.264 MPEG-4 format and shall be submitted with an accompanying PACP access database, in the most current version.

If requested by the City, the Contractor shall notify affected residents/businesses at least one day prior to starting sewer inspection with a "Resident Notification Letter" informing the residents/businesses of the Contractor's activities and to provide contact information for the Contractor and City.

Inspection

All recording of sewers shall be continuous from structure to structure. The camera shall be positioned at the center of the sewer pipe during inspection. All inspection shall be completed during times of dry weather flow, and the camera shall record in the same direction as the flow. Inspection against the flow (reverse setup), especially during high flow conditions, must be approved by the City. If reverse setup is required, then the Contractor shall establish a new inspection run separate from downstream (normal) setup.

DETAILED SPECIFICATION
FOR
SEWER VIDEO INSPECTION

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The Contractor shall use a color pan, tilt and zoom, camera or a digital side scanning camera (panoramic) specifically designed and constructed for sewer inspection. Lighting for the camera or panoramic scanning camera shall provide a clear picture of the entire periphery of the existing sewer. The pan, tilt, zoom camera shall pause, pan, and visually inspect all service connections, pipe ends, and maintenance or structural defects. If utilizing a panoramic view inspection system, pausing and panning is not necessary during the inspection and can be used if the image clearly depicts the inside of the lateral for post processing of the scans.

The rate of speed shall be adjusted to produce a clear, concise record of the piping system and shall not exceed 30 feet per minute for conventional CCTV cameras. Travel shall stop for minimum of 10 seconds to record lateral connections, mainline connections, defects, features, and other observations. Advanced camera systems with high resolution recording and lighting characteristics will be allowed to record at faster rates subject to City review and approval of images.

CCTV inspections will be conducted entirely in digital format. The entire pan, tilt, and zoom inspection survey shall be recorded in H.264 MPEG-4 format written in a digital format (e.g. DVD, hard drive) and submitted with digital links to the survey. All panoramic side scanning inspection survey shall be recorded in an acceptable panoramic format and submitted with digital links to the survey. All cleaning and television inspection reports shall be with-in +/- two (2) feet of the measured linear footage between manholes along the existing sewer centerline from the start of pipe to end of pipe. Work not following these specifications may be rejected for payment and the Contractor may be required to re do the work.

Manual winches, power winches, TV cable, and powered rewinds or other devices that do not obstruct the camera view or interfere with proper documentation of the sewer conditions may be used to move the camera through the sewer line.

If the camera will not pass through the entire sewer line section being investigated, the Contractor shall, at no additional cost set up equipment so that inspection can be performed from the opposite manhole. If under the reverse set-up the camera again fails to pass through the entire sewer line section, inspection shall be considered complete. All obstructions in the sewer segment that prohibit passage of the television camera shall be immediately reported to the City referencing location and nature of the obstruction.

Should the Contractor’s televising equipment become lodged in any sewer line, it shall be removed by the Contractor at their expense. This shall include, if necessary, excavation and repair of the sewer, underground utility repairs, backfilling and surface restoration. The Contractor shall re-televise any line segment in which his equipment became lodged after said equipment has been removed to demonstrate to the City that no damage exists as a result of his televising operations.

Unless otherwise approved by the City, inspection shall be completed one sewer section at a time. Access for televising purposes shall only be via existing manholes. Should access to a particular sewer section be difficult and adjacent sections require television inspection, Contractor may be allowed to complete inspection in multiple sewer line sections. When multiple sewer line sections are inspected using one setup, Contractor shall zero the camera’s footage metering device at each subsequent sewer manhole to establish uniform starting location of Station 0+00 for each line section televised.

Photographs shall be taken of each coded feature or defect. Digital photographs shall each have unique filename encoded in .JPEG format and a minimum 640 x 480 resolution. The file name shall include the corresponding manhole numbers, upstream and then downstream as the start of file name. The inspection date and defect code shall be included.

Recordings and Reporting
The Contractor shall provide a video of all pipe segment inspections and assign a unique filename per pipe segment inspection. The file name shall include the corresponding manhole numbers, upstream and then downstream as the start of file name. Video shall be encoded in H.264 MPEG-4 format.
Other inspection recording requirements are provided below:

The video opening Screen: The following is an example of the required on-screen text display fields.

Date & Time:	*(YYYY/MM/DD), (military time hh:mm)*
Surveyor's Name/& Co.:	*John Doe, (Contractor)*
Project Name:	*XYZ Project*
Location:	*1 Example (Main Street)*
Upstream MH No:	*### (Feature_ID and Facility_ID)*
Upstream MH depth:	*##.# (nearest tenth of a foot)*
Downstream MH No:	*### (Feature_ID and Facility_ID)*
Downstream MH Depth	*### (Feature_ID and Facility_ID)*
Pipe Segment Ref.	*###### (Feature_IDs)*
Starting Footage:	*###(nearest tenth of foot)*
Inspection Direction:	*Downstream or Upstream*
Pipe Material:	*Example, (VCP)*
Pipe Diameter/Height/Width:	*Diameter/Height: ##" Width: ##" (as measured in the field)*
Weather:	*Example, (Snow)*
Pre-Cleaning:	*Example, (Jetting)*
Additional Info:	*additional important information/comments*

Continuous View: Following is the list of required on-screen text display fields:

- Inspection date and time.
- Continuous forward and reverse readout of camera distance (tape counter footage).
- Pipe segment feature ID.
- Defect/observation code(s) (when encountered).

The proper IDs shall be used to identify the inspected pipeline, upstream and downstream manholes (Facility IDs and Feature IDs from the City's GIS.) The City shall provide detailed GIS data for all sewers to be inspected. This information shall be utilized to pre-populate required header information.

DETAILED SPECIFICATION
FOR
SEWER VIDEO INSPECTION

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All inspection reports shall be filled out in their entirety and referenced to the video that contains the line segment. Videos shall be color and of digital quality and also contain identifying labels for sewers and manholes within the file path or be organized in a manner that allows for easy segment identification.

NASSCO coding format is required including a list of defects encountered as well as a map of the sewer showing the relevant structures and pipelines in correct spatial proportions. Reports shall show overall structural pipe rating index (SPRI) values, overall O&M pipe rating index (MPRI) values, and overall pipe rating index (OPRI) values.

All reports shall include a linear sketch of the sewer segment showing defect locations and code. All pipes, manholes, laterals and other structures shall be in identified using City naming convention. The operator's PACP certification number shall be recorded on the Reports.

The Contractor shall also prepare a Defect Assessment Report for each sewer segment that lists the individual pipe defects and assigns a defect "grade" using the NASSCO PACP Condition Grading System guidelines. The individual Defect Assessment Reports shall then be listed by category on a Defect Summarization Table spreadsheet.

The Defect Summarization Table shall list all categories of defects. It shall be capable of tabulating continuous and repeating continuous defect grades. The summarization spreadsheet shall have a category for both age-related constant defects and service lead-related defects.

The Defect Summarization Table shall then calculate the "Defect Ratio" for each sewer segment by dividing the totaled defects by the total length of each sewer segment. (Defect Ratio = Total Defect Grade/Total Length).

The Contractor shall provide to the City a cloud hosted data store of all videos/photographs, data during the execution of this contract. At the conclusion of the contract the contractor shall provide all collected data onto a suitable data storage device (external hard drive.) The devices shall be labeled to correspond with the hard copy.

Inspection Reports: Labels shall be permanent with complete project information. The Defect Assessment Report shall be in Adobe PDF. The Defect Summarization Table shall be viewable and editable using standard Microsoft Office software. An electronic database formatted to work with to the most recent PACP standards shall also be included with the submittal.

The City reserves the right to reject any or all televising and recording of sewer segments due to poor quality or clarity of defects. If necessary the Contractor shall re-inspect those segments as determined by the City at no additional cost to the City.

All video recordings, still images and reports shall become property of the City without restriction for copying, re-use or publication.

All inspection recordings and reports will be reviewed by the City. The City shall have the authority to reject all or any portion of recordings not conforming to Specifications. These areas shall be re-inspected at no additional charge.

2023 Sewer Lining Project - Sanitary Sewer

FACILITYID	USNODEID	DSNODEID	DIAMETER	RECORD LENGTH
74-61901	71-61608	71-61609	8	179.0
74-61902	71-61609	71-62054	8	271.0
74-61906	71-61613	71-61614	8	285.0
74-61907	71-61614	71-61615	8	98.0
74-61908	71-61615	71-61616	8	179.0
74-61909	71-61616	71-62054	8	96.0
74-62224	71-61955	71-62026	8	159.0
74-62243	71-61974	71-61945	8	138.0
74-61816	71-61600	71-61608	8	146.0
74-61830	71-61940	71-61939	8	206.0
74-61831	71-61941	71-61940	8	144.0
74-61835	71-61945	71-61943	8	206.0
74-62295	71-62026	71-62025	8	170.0
74-62378	71-62068	71-62067	8	211.0
74-62386	71-62076	71-62077	8	106.0
74-62387	71-62077	71-62078	8	73.0
74-62388	71-62078	71-62079	8	90.0
74-62389	71-62079	71-62080	8	238.0
74-62390	71-62080	71-61636	8	237.0
74-64839	71-64580	71-64579	8	184.6
74-64842	71-64583	71-073509	8	210.0
74-64843	71-64584	71-64583	8	273.0
74-64838	71-64579	71-073502	8	247.0
74-70447	71-70210	71-073110	8	97.0
74-69355	71-69181	71-70351	8	330.0
74-69356	71-69182	71-69181	8	330.0
74-69357	71-69183	71-69182	8	329.0
74-69507	71-69306	71-69307	8	264.0
74-69521	71-69320	71-69321	8	99.0
74-69522	71-69321	71-69322	8	149.0
74-69523	71-69322	71-69323	8	180.0
74-69524	71-69323	71-69325	8	176.0
74-69766	71-69497	71-69321	8	420.0
74-70485	71-70250	71-70251	8	297.0
74-70486	71-70251	71-70151	8	339.0
74-69223	71-69018	71-69020	8	63.0
74-69224	71-69019	71-70334	8	192.0
74-69225	71-69020	71-69019	8	158.0
74-69463	71-69302	71-69303	8	149.0
74-69464	71-69303	71-69304	8	175.0
74-69465	71-69304	71-69305	8	124.0
74-69466	71-69305	71-69306	8	142.0
74-69358	71-69184	71-69183	8	300.0
74-69359	71-69185	71-69184	8	113.0
74-69361	71-69186	71-69185	8	200.0
74-69536	71-69335	71-69305	8	138.0
74-69539	71-69338	71-69340	8	165.0
74-69541	71-69340	71-69341	8	9.0
74-69542	71-69341	71-69342	8	140.0
74-69543	71-69342	71-69309	8	387.0
74-70400	71-70162	71-61431	10	337.0

74-70401	71-074164	71-70162	8	119.0
74-70484	71-70249	71-70267	8	190.0
74-70503	71-61438	71-70162	8	381.0
74-70506	71-70267	71-70268	8	250.0
74-70384	71-70150	71-70162	10	292.0
74-70545	71-70306	71-073607	8	127.0
74-71520	71-71355	71-71346	8	58.0
74-71528	71-71377	71-71376	8	150.0
74-71320	71-71154	71-71155	8	217.0
74-71321	71-71155	71-71156	8	215.0
74-71322	71-71156	71-71695	8	211.0
74-70588	71-70351	71-70397	10	181.0
74-70628	71-70391	71-70340	8	270.0
74-70634	71-70397	71-70399	10	130.0
74-71990	71-61457	71-61452	8	194.0
74-71511	71-71346	71-70163	8	437.0
74-71512	71-71347	71-71355	8	135.0
74-71578	71-71692	71-71693	12	84.0
74-71191	71-71005	71-71770	8	156.0
74-71581	71-71695	71-71692	8	100.0
74-71623	71-71427	71-71428	8	296.0
74-71624	71-71428	71-71474	8	164.0
74-71625	71-71429	71-71430	8	304.0
74-71626	71-71430	71-71431	8	299.0
74-71627	71-71431	71-71432	8	306.0
74-71695	71-71500	71-71428	8	324.0
74-71654	71-71458	71-71460	8	297.0
74-71670	71-71474	71-71429	8	111.0
74-71677	71-71481	71-71480	30	312.0
74-71722	71-71522	71-71523	8	41.0
74-71723	71-71523	71-71490	8	330.0
74-71728	71-71527	71-71490	8	253.0
74-71763	71-61451	71-61450	8	59.0
74-71764	71-71560	71-61451	8	200.0
74-71812	71-61452	71-61453	8	165.0
74-71931	71-71782	71-71427	8	280.0
74-72592	69-50264	71-71524	8	157.0
74-71814	71-61453	71-61458	8	79.0
74-72591	71-61458	69-50264	8	114.0
74-72735	71-71432	69-50295	10	155.0
74-72737	69-50295	69-50296	12	2.0
74-70571	71-70334	71-70390	8	200.0
74-70627	71-70390	71-61438	8	207.0
74-71760	71-71558	71-61457	8	82.0
74-71761	71-61450	71-71558	8	59.0
74-074016	71-69187	71-69185	8	194.0
74-074559	71-073502	71-71782	8	55.0
74-074565	71-073509	71-073511	8	182.0
74-075976	71-70163	71-074164	8	113.0

2023 Sewer Lining Project - Storm Sewer

FACILITYID	USNODEID	DSNODEID	DIAMETER	RECORD LENGTH
95-58400	92-59855	97-50391	12	231
95-58492	92-58358	92-58378	18	341
95-57382	92-57165	92-57139	12	199
95-57383	92-57166	92-57165	12	120
95-57384	92-57167	92-57166	12	109
95-60496	92-60458	92-60485	12	331
95-60491	92-60453	92-60454	12	327
95-59123	92-59035	92-59034	12	140
95-59127	92-59039	92-59035	12	167
95-59218	92-59138	92-59139	12	254
95-59219	92-59139	92-59039	12	152
95-58757	92-065867	92-58393	12	160
95-58758	92-58627	92-58626	12	254
95-58759	92-58628	92-58627	12	166
95-59217	92-59137	92-58628	12	176
95-64178	92-60504	92-60503	18	129
95-60583	92-60545	92-60082	15	178
95-60541	92-60503	92-60546	15	57
95-60584	92-60546	92-60545	15	116
95-80084	92-56410	92-60229	12	324
95-076401	92-58626	92-065867	12	98
95-59286	92-59221	92-59221	12	334