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PUBLIC IMPROVEMENT REQUEST FOR PROPOSAL

RFP# 23-41

2023 SEWER LINING PROJECT

City of Ann Arbor
ENGINEERING UNIT/PUBLIC SERVICES AREA

Due Date: September 7, 2023 by 3:00 p.m. (local time)

Issued By:

City of Ann Arbor
Procurement Unit
301 E. Huron Street
Ann Arbor, MI 48104

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SECTION I - GENERAL INFORMATION

A. OBJECTIVE

The purpose of this Request for Proposal (RFP) is to select a firm to provide construction services for the 2023 Sewer Lining Project.

B. BID SECURITY

Each bid must be accompanied by a certified check or Bid Bond by a surety licensed and authorized to do business within the State of Michigan, in the amount of 5% of the total of the bid price.

Proposals that fail to provide a bid security upon proposal opening will be deemed non-responsive and will not be considered for award.

C. QUESTIONS AND CLARIFICATIONS / DESIGNATED CITY CONTACTS

All questions regarding this Request for Proposal (RFP) shall be submitted via e-mail. Questions will be accepted and answered in accordance with the terms and conditions of this RFP.

All questions shall be submitted on or before August 25, 2023 at 3:00 p.m. (local time), and should be addressed as follows:

Scope of Work/Proposal Content questions shall be e-mailed to Igor Kotlyar, Project Manager, ikotlyar@a2gov.org.

RFP Process and Compliance questions shall be e-mailed to Colin Spencer, Buyer - CSpencer@a2gov.org

Should any prospective bidder be in doubt as to the true meaning of any portion of this RFP, or should the prospective bidder find any ambiguity, inconsistency, or omission therein, the prospective bidder shall make a written request for an official interpretation or correction by the due date for questions above.

All interpretations, corrections, or additions to this RFP will be made only as an official addendum that will be posted to a2gov.org and MITN.info and it shall be the prospective bidder's responsibility to ensure they have received all addenda before submitting a proposal. Any addendum issued by the City shall become part of the RFP, and must be incorporated in the proposal where applicable.

D. PRE-PROPOSAL MEETING

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No pre-proposal meeting will be held for this RFP. Please contact staff indicated above with general questions regarding the RFP.

E. PROPOSAL FORMAT

To be considered, each firm must submit a response to this RFP using the format provided in Section III. No other distribution of proposals is to be made by the prospective bidder. An official authorized to bind the bidder to its provisions must sign the proposal. Each proposal must remain valid for at least one hundred and twenty (120) days from the due date of this RFP.

Proposals should be prepared simply and economically providing a straightforward, concise description of the bidder's ability to meet the requirements of the RFP. No erasures are permitted. Mistakes may be crossed out and corrected and must be initialed in ink by the person signing the proposal.

F. SELECTION CRITERIA

Responses to this RFP will be evaluated using a point system as shown in Section III. A selection committee comprised primarily of staff from the City will complete the evaluation.

If interviews are desired by the City, the selected firms will be given the opportunity to discuss their proposal, qualifications, past experience, and their fee proposal in more detail. The City further reserves the right to interview the key personnel assigned by the selected bidder to this project.

All proposals submitted may be subject to clarifications and further negotiation. All agreements resulting from negotiations that differ from what is represented within the RFP or in the proposal response shall be documented and included as part of the final contract.

G. SEALED PROPOSAL SUBMISSION

All proposals are due and must be delivered to the City on or before September 7, 2023 by 3:00 p.m (local time). Proposals submitted late or via oral, telephonic, telegraphic, electronic mail or facsimile **will not** be considered or accepted.

Each respondent should submit in a sealed envelope

- **one (1) original proposal**
- **one (1) additional proposal copy**
- **one (1) digital copy of the proposal preferably on a USB/flash drive as one file in PDF format**

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Proposals submitted should be clearly marked: **"RFP No. 23-41 – SEWER LINING PROJECT** and list the bidder's name and address.

Proposals must be addressed and delivered to:
City of Ann Arbor
c/o Customer Service
301 East Huron Street
Ann Arbor, MI 48107

All proposals received on or before the due date will be publicly opened and recorded on the due date. No immediate decisions will be rendered.

Hand delivered proposals may be dropped off in the Purchasing drop box located in the Ann Street (north) vestibule/entrance of City Hall which is open to the public Monday through Friday from 8am to 5pm (except holidays). The City will not be liable to any prospective bidder for any unforeseen circumstances, delivery, or postal delays. Postmarking on the due date will not substitute for receipt of the proposal.

Bidders are responsible for submission of their proposal. Additional time will not be granted to a single prospective bidder. However, additional time may be granted to all prospective bidders at the discretion of the City.

A proposal may be disqualified if the following required forms are not included with the 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 forms listed above upon proposal opening may be deemed non-responsive and may not be considered for award.

H. DISCLOSURES

Under the Freedom of Information Act (Public Act 442), the City is obligated to permit review of its files, if requested by others. All information in a proposal is subject to disclosure under this provision. This act also provides for a complete disclosure of contracts and attachments thereto.

I. TYPE OF CONTRACT

A sample of the Construction Agreement is included as Attachment A. Those who wish to submit a proposal to the City are required to review this sample agreement carefully. **The City will not entertain changes to its Construction Agreement.**

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For all construction work, the respondent must further adhere to the City of Ann Arbor General Conditions. The General Conditions are included herein. Retainage will be held as necessary based on individual tasks and not on the total contract value. The Contractor shall provide the required bonds included in the Contract Documents for the duration of the Contract.

The City reserves the right to award the total proposal, to reject any or all proposals in whole or in part, and to waive any informality or technical defects if, in the City's sole judgment, the best interests of the City will be so served.

This RFP and the selected bidder's response thereto, shall constitute the basis of the scope of services in the contract by reference.

J. NONDISCRIMINATION

All bidders proposing to do business with the City shall satisfy the contract compliance administrative policy adopted by the City Administrator in accordance with the Section 9:158 of the Ann Arbor City Code. Breach of the obligation not to discriminate as outlined in Attachment G shall be a material breach of the contract. Contractors are required to post a copy of Ann Arbor's Non-Discrimination Ordinance attached at all work locations where its employees provide services under a contract with the City.

K. WAGE REQUIREMENTS

The Attachments provided herein outline the requirements for payment of prevailing wages or of a "living wage" to employees providing service to the City under this contract. The successful bidder must comply with all applicable requirements and provide documentary proof of compliance when requested.

Pursuant to Resolution R-16-469 all public improvement contractors are subject to prevailing wage and will be required to provide to the City payroll records sufficient to demonstrate compliance with the prevailing wage requirements. Use of Michigan Department of Transportation Prevailing Wage Forms (sample attached hereto) or a City-approved equivalent will be required along with wage rate interviews.

For laborers whose wage level are subject to federal, state and/or local prevailing wage law the appropriate Davis-Bacon wage rate classification is identified based upon the work including within this contract. **The wage determination(s) current on the date 10 days before proposals are due shall apply to this contract.** The U.S. Department of Labor (DOL) has provided explanations to assist with classification in the following resource link: www.wdol.gov.

For the purposes of this RFP the Construction Type of Highway will apply.

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L. CONFLICT OF INTEREST DISCLOSURE

The City of Ann Arbor Purchasing Policy requires that the consultant complete a Conflict of Interest Disclosure form. A contract may not be awarded to the selected bidder unless and until the Procurement Unit and the City Administrator have reviewed the Disclosure form and determined that no conflict exists under applicable federal, state, or local law or administrative regulation. Not every relationship or situation disclosed on the Disclosure Form may be a disqualifying conflict. Depending on applicable law and regulations, some contracts may awarded on the recommendation of the City Administrator after full disclosure, where such action is allowed by law, if demonstrated competitive pricing exists and/or it is determined the award is in the best interest of the City. A copy of the Conflict of Interest Disclosure Form is attached.

M. COST LIABILITY

The City of Ann Arbor assumes no responsibility or liability for costs incurred by the bidder prior to the execution of an Agreement. The liability of the City is limited to the terms and conditions outlined in the Agreement. By submitting a proposal, bidder agrees to bear all costs incurred or related to the preparation, submission, and selection process for the proposal.

N. DEBARMENT

Submission of a proposal in response to this RFP is certification that the Respondent is not currently debarred, suspended, proposed for debarment, and declared ineligible or voluntarily excluded from participation in this transaction by any State or Federal departments or agency. Submission is also agreement that the City will be notified of any changes in this status.

O. PROPOSAL PROTEST

All proposal protests must be in writing and filed with the Purchasing Manager within five (5) business days of any notices of intent, including, but not exclusively, divisions on prequalification of bidders, shortlisting of bidders, or a notice of intent to award. Only bidders who responded to the solicitation may file a bid protest. The bidder must clearly state the reasons for the protest. If any bidder contacts a City Service Area/Unit and indicates a desire to protest an award, the Service Area/Unit shall refer the bidder to the Purchasing Manager. The Purchasing Manager will provide the bidder with the appropriate instructions for filing the protest. The protest shall be reviewed by the City Administrator or designee, whose decision shall be final.

Any inquiries or requests regarding this procurement should be only submitted in writing to the Designated City Contacts provided herein. Attempts by the bidder to initiate contact with anyone other than the Designated City Contacts provided herein that the bidder believes can influence the procurement decision, e.g., Elected Officials,

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City Administrator, Selection Committee Members, Appointed Committee Members, etc., may lead to immediate elimination from further consideration.

P. SCHEDULE

The following is the schedule for this RFP process.

Activity/Event	Anticipated Date
Written Question Deadline	August 25, 2023 at 3:00 p.m (Local Time)
Addenda Published (if needed)	Week of August 28, 2023
Proposal Due Date	September 7, 2023, 3:00 p.m. (Local Time)
Selection/Negotiations	September 2023
Expected City Council Authorizations	October 2023

The above schedule is for information purposes only and is subject to change at the City's discretion.

Q. IRS FORM W-9

The selected bidder will be required to provide the City of Ann Arbor an IRS form W-9.

R. RESERVATION OF RIGHTS

1. The City reserves the right in its sole and absolute discretion to accept or reject any or all proposals, or alternative proposals, in whole or in part, with or without cause.
2. The City reserves the right to waive, or not waive, informalities or irregularities in terms or conditions of any proposal if determined by the City to be in its best interest.
3. The City reserves the right to request additional information from any or all bidders.
4. The City reserves the right to reject any proposal that it determines to be unresponsive and deficient in any of the information requested within RFP.
5. The City reserves the right to determine whether the scope of the project will be entirely as described in the RFP, a portion of the scope, or a revised scope be implemented.
6. The City reserves the right to select one or more contractors or service providers to perform services.
7. The City reserves the right to retain all proposals submitted and to use any ideas in a proposal regardless of whether that proposal is selected. Submission of a proposal indicates acceptance by the firm of the conditions contained in this RFP, unless clearly and specifically noted in the proposal submitted.
8. The City reserves the right to disqualify proposals that fail to respond to any requirements outlined in the RFP, or failure to enclose copies of the required documents outlined within the RFP.

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S. IDLEFREE ORDINANCE

The City of Ann Arbor adopted an idling reduction Ordinance that went into effect July 1, 2017. The full text of the ordinance (including exemptions) can be found at: www.a2gov.org/idlefree.

Under the ordinance, No Operator of a Commercial Vehicle shall cause or permit the Commercial Vehicle to Idle:

(a) For any period of time while the Commercial Vehicle is unoccupied; or

(b) For more than 5 minutes in any 60-minute period while the Commercial Vehicle is occupied.

In addition, generators and other internal combustion engines are covered

(1) Excluding Motor Vehicle engines, no internal combustion engine shall be operated except when it is providing power or electrical energy to equipment or a tool that is actively in use.

T. ENVIRONMENTAL COMMITMENT

The City of Ann Arbor recognizes its responsibility to minimize negative impacts on human health and the environment while supporting a vibrant community and economy. The City further recognizes that the products and services the City buys have inherent environmental and economic impacts and that the City should make procurement decisions that embody, promote, and encourage the City's commitment to the environment.

The City encourages potential vendors to bring forward emerging and progressive products and services that are best suited to the City's environmental principles.

U. MAJOR SUBCONTRACTORS

The Bidder shall identify each major subcontractor it expects to engage for this Contract if the work to be subcontracted is 15% or more of the bid sum or over $50,000, whichever is less. The Bidder also shall identify the work to be subcontracted to each major subcontractor. The Bidder shall not change or replace a subcontractor without approval by the City.

N. LIQUIDATED DAMAGES

A liquidated damages clause, as given on page C-2, Article III of the Contract, provides that the Contractor shall pay the City as liquidated damages, and not as a penalty, a sum certain per day for each and every day that the Contractor may be in default of completion of the specified work, within the time(s) stated in the Contract, or written extensions.

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Liquidated damages clauses, as given in the General Conditions, provide further that the City shall be entitled to impose and recover liquidated damages for breach of the obligations under Chapter 112 of the City Code.

The liquidated damages are for the non-quantifiable aspects of any of the previously identified events and do not cover actual damages that can be shown or quantified nor are they intended to preclude recovery of actual damages in addition to the recovery of liquidated damages.

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SECTION II - SCOPE OF WORK

Please see the plan set and detailed specifications for more details.

The City intends to award up to two (2) construction contracts. The term of the contracts will be through June 30, 2024 with an optional extension for up to one (1) additional year. It shall be understood that the submitted unit prices are to be honored over the term of the contract. If the contract is extended, a onetime cost escalator of no greater than 3% may be added to the submitted unit prices. A written request from the Contractor at the end original contract period from will be required to consider any rate adjustments.

There will be no minimum value of services committed by the City for each awarded service contract. The contract amounts are subject to the availability of funds and approval of annual budgets.

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SECTION III - MINIMUM INFORMATION REQUIRED

PROPOSAL FORMAT

The following describes the elements that should be included in each of the proposal sections and the weighted point system that will be used for evaluation of the proposals.

Bidders should organize Proposals into the following Sections:

A. Qualifications, Experience and Accountability
B. Workplace Safety
C. Workforce Development
D. Social Equity and Sustainability
E. Schedule of Pricing/Cost
F. Authorized Negotiator
G. Attachments

Bidders are strongly encouraged to provided details for all of the information requested below within initial proposals. Backup documentation may be requested at the sole discretion of the City to validate all of the responses provided herein by bidders. False statements by bidders to any of the criteria provided herein will result in the proposal being considered non-responsive and will not be considered for award.

Pursuant to Sec 1:325 of the City Code which sets forth requirements for evaluating public improvement bids, Bidders should submit the following:

A. Qualifications, Experience and Accountability - 20 Points

1. Qualifications and experience of the bidder and of key persons, management, and supervisory personnel to be assigned by the bidder.

2. References from individuals or entities the bidder has worked for within the last five (5) years including information regarding records of performance and job site cooperation.

3. Evidence of any quality control program used by the bidder and the results of any such program on the bidder's previous projects.

4. A statement from the bidder as to any major subcontractors it expects to engage including the name, work, and amount.

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B. Workplace Safety – 20 Points

1. Provide a copy of the bidder's safety program, and evidence of a safety-training program for employees addressing potential hazards of the proposed job site. Bidder must identify a designated qualified safety representative responsible for bidder's safety program who serves as a contact for safety related matters.

2. Provide the bidder's Experience Modification Rating ("EMR") for the last three consecutive years. Preference within this criterion will be given to an EMR of 1.0 or less based on a three-year average.

3. Evidence that all craft labor that will be employed by the bidder for the project has, or will have prior to project commencement, completed at least an authorized 10-hour OSHA Construction Safety Course.

4. For the last three years provide a copy of any documented violations and the bidder's corrective actions as a result of inspections conducted by the Michigan Occupational Safety & Health Administration (MIOSHA), U.S. Department of Labor – Occupational Safety and Health Administration (OSHA), or any other applicable safety agency.

C. Workforce Development – 20 Points

1. Documentation as to bidder's pay rates, health insurance, pension or other retirement benefits, paid leave, or other fringe benefits to its employees.

2.. Documentation that the bidder participates in a Registered Apprenticeship Program that is registered with the United States Department of Labor Office of Apprenticeship or by a State Apprenticeship Agency recognized by the USDOL Office of Apprenticeship. USDOL apprenticeship agreements shall be disclosed to the City in the solicitation response.

3. Bidders shall disclose the number of non-craft employees who will work on the project on a 1099 basis, and the bidders shall be awarded points based on their relative reliance on 1099 work arrangements with more points assigned to companies with fewer 1099 arrangements. Bidders will acknowledge that the City may ask them to produce payroll records at points during the project to verify compliance with this section.

D. Social Equity and Sustainability – 20 Points

1. A statement from the bidder as to what percentage of its workforce resides in the City of Ann Arbor and in Washtenaw County, Michigan. The City will consider in

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evaluating which bids best serve its interests, the extent to which responsible and qualified bidders employ individuals in either the city of the county. City of Ann Arbor jurisdiction is prioritized for evaluation purposes for this solicitation.

2. Evidence of Equal Employment Opportunity Programs for minorities, women, veterans, returning citizens, and small businesses.

3. Evidence that the bidder is an equal opportunity employer and does not discriminate on the basis of race, sex, pregnancy, age, religion, national origin, marital status, sexual orientation, gender identity or expression, height, weight, or disability.

4. The bidder's proposed use of sustainable products, technologies, or practices for the project, which reduce the impact on human health and the environment, including raw materials acquisition, production, manufacturing, packaging, distribution, reuse, operation, maintenance, and waste management.

5. The bidder's environmental record, including findings of violations and penalties imposed by government agencies.

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E. Schedule of Pricing/Cost – 20 Points

Company: _____

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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."

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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

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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 **$**

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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 **$ -**

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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.

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DETAILED SPECIFICATION
FOR
SEWER VIDEO INSPECTION

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.

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DETAILED SPECIFICATION
FOR
SEWER VIDEO INSPECTION

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.

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DETAILED SPECIFICATION
FOR
SEWER VIDEO INSPECTION

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.

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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

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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

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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

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SAK™

Pipeline Infrastructure. Solved.™

City of Ann Arbor, MI

RFP #23-41 2023 Sewer Lining Project

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SAK™

Pipeline Infrastructure. Solved.™

National Headquarters
864 Hoff Road
O'Fallon, MO 63366
636.385.1000 *tel*
636.385.1100 *fax*
www.sakcon.com

September 7, 2023

City of Ann Arbor
c/o Customer Service
301 East Huron Street
Ann Arbor, MI 48107

Re: RFP No. 23-41 – Sewer Lining Project

City of Ann Arbor,

SAK Construction, LLC (SAK) is pleased to submit this request for proposal package. This RFP package will demonstrate SAK's significant experience and resources available to successfully complete any CIPP project for the City of Ann Arbor. Enclosed you will find all necessary information for the criteria listed below.

Proposal section requirements include:

A. Qualifications, Experience and Accountability
B. Workplace Safety
C. Workforce Development
D. Social Equity and Sustainability
E. Schedule of Pricing/Cost
F. Authorized Negotiator
G. Attachments

Please let us know if you require any further information or have any technical questions regarding this RFP package.

Sincerely,

Boyd Hirtz,
Vice President
SAK Construction, LLC
bidcippc@sakcon.com

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Section A.

Qualification, Experience and Accountability

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A. Qualification, Experience and Accountability

1. Qualifications and experience of the bidder and of key persons, management, and supervisory personnel to be assigned by the bidder.
   Please see attachments labeled "Central Region Letter of Experience and Resumes."

2. References from individuals or entities the bidder has worked for within the last five (5) years including information regarding records of performance and job site cooperation.
   Please see attachment labeled "Client Acknowledgements."

3. Evidence of any quality control program used by the bidder and the results of any such program on the bidder's previous projects.
   Please see attachment labeled "Quality Management System."

4. A statement from the bidder as to any major subcontractors it expects to engage including the name, work, and amount.
   Our major subcontractors will be:

   PipeTek Infrastructure Services
   15155 Fogg Street
   Plymouth, MI 48170
   Cleaning & CCTV
   $198,853.70

   RJ&J Enterprises
   10229 N. Dixie Highway
   South Rockwood, MI 48179
   Excavation
   $611,675.80

   Structured Solutions, LLC
   814 West Pearl Street
   Union City, IN 47390
   Manhole Rehabilitation
   $78,000.00

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SAK Construction, LLC (SAK) is a full-service general contractor, construction management firm and construction materials producer. SAK specializes in complex underground infrastructure projects including wastewater, stormwater and combined sewer pipeline rehabilitation, and new tunnel construction of large diameter conveyance pipelines and storage tunnels.

Company Headquarters

Our approximately 115,000 square-foot headquarters, equipment fabrication, product manufacturing and CIPP wet-out facility are located near St. Louis, Missouri, approximately 20 miles west on I-70 from Lambert St. Louis Airport. The address and contact information are:

SAK Construction, LLC
864 Hoff Road
O'Fallon, Missouri 63366

(636) 385-1000 Telephone
(636)385-1100 Fax
bidcippc@sakcon.com

Capabilities

- Cured-in-place pipe lining (gravity) – 6" to 108" diameter
- Cured-in-place pipe lining (pressure) – 6" to 48" diameter
- Large Diameter Tunneling Utilizing TBM up to 24-foot & Hand Mining up to 32-foot arch
- Large Diameter Sliplining – 36" pipe and above
- Large Diameter Geopolymer
- SPR Spiral Wound PVC & PE
- Shotcrete
- Shaft Excavation
- Sewer Bypass, Sewer Cleaning & CCTV Inspection, & Structure Rehabilitation
- Cured-In-Place Pipe (CIPP) Tube Manufacturing

Management and Key Personnel/Experience

Tom Kalishman - Co Founder and Chairman

- Co-Founder and Chairman SAK Construction; 2006 to Present.
- Board of Directors, Insituform Technologies, Inc. (ITI) from 1997 to 2005.
- President of United Pipeline Systems (ITI subsidiary) in 1998.
- Director of East Regions, ITI 1997 to 1998. Business unit annual revenues exceeding $150mm.
- General Manager Southeast Region ITI from 1996 to 1997.
- Operations Manager Southeast Region ITI from 1994 to 1996.
- Operations Management Insituform Mid America from 1991 to 1993
- MBA Northwestern University; Evanston, IL.
- B.S. in Economics, Wharton School at the University of Pennsylvania.

Jerry Shaw - Co Founder and President

- Co-Founder and President SAK Construction; 2006 to Present.
- Over 50 years' experience in the tunnel and pipeline rehabilitation industry.
- Vice President of Affholder, Inc. (ITI tunneling subsidiary) for 18 years from 1987 to 2005, responsible for the overall operations of the company, which included estimating, field operations, equipment acquisitions and cost projects.
- Day to day management of $25mm tunneling business which grew to $120mm annually.
- Project manager of various tunnel projects 1983 to 1987.
- B.S. in Business Administration, Southwest Missouri State University (now Missouri St. Univ.).

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Robert Affholder - Vice Chairman

- Board of Directors and Executive Vice President, Insituform Technologies, Inc. 1995 to 2005.
- Board of Directors and President, Insituform Mid-America from 1986 to 1995.
- Formed Affholder, Inc. in 1968 to compete in the tunneling industry. Purchased first Insituform franchise in 1982, and took the company public as Insituform Mid-America, with Affholder, Inc. and six (6) Insituform franchise territories becoming wholly owned subsidiaries. Company revenues exceeded $125 million.
- 1996 Trenchless Technology Person of the Year.
- 1995 key facilitator of merger between Insituform Mid America and Insituform Technologies, Inc., resulting in his being put in charge of all North American contracting for the corporation.
- President of Affholder, Inc. from 1968 to 2002.

Harry Miller - Safety Director

- Over 20 years' experience working as a safety consultant and safety manager for firms such as Black & Veatch and the Carpenters District Council of Greater St. Louis & Vicinity, joined SAK as Safety Director in January 2015.
- Division Safety Manager, Veatch and The Carpenters District Council of Greater St. Louis & Vicinity, joined SAK as Safety Director in January 2015.
- Division Safety Manager, Black & Veatch Construction Inc. Responsibilities include supervision of safety professionals on projects within the continental US and Alaska.
- Is a Certified Safety Professional (CSP) and Construction Health and Safety Technician (CHST) through the Board of Certified Safety Professionals (BCSP).
- Extensive knowledge of OSHA guidelines has Confined Space Training and Haz-Woper Certification.
- Occupational Safety and Health Administration 500 & 501 trainer.
- Professional Member American Society of Safety Engineers.
- B.A. in Human Resources, Lindenwood University.
- MSA in Business, Lindenwood University.

Joe Feuerborn - Vice President and General Manager, CIPP Division

- Over 27 years' experience in the CIPP industry.
- In 2020, promoted to VP, GM CIPP Division, involved in the overall operations and management of the company's pipeline rehabilitation division nationwide.
- Pacific Region General Manager of SAK from 2011 to 2020, responsible for the management of business development, project management, engineering, and operations teams.
- Responsible for all project acquisition and execution for SAK in the Pacific Region.
- Vice President / General Manager of Pipenology Inc. from 2008 to 2011.
- District Manager of Pacific Region at Insituform Technologies from 2004 to 2006.
- Project Executive for Insituform Technologies, Inc. from 2001 to 2004.
- Lead Project Manager for Insituform Technologies, Inc. from 1999 to 2001.
- Estimator/Project Manager for Insituform Technologies, Inc. from 1996 to 1999.
- B.S. in Civil Engineering, University of Missouri.

Steve Hirtz - Vice President Rehab Operations

- Over 38 years' experience in the tunneling and pipeline rehabilitation industry.
- Vice President of Rehab Operations for SAK from May 2009 to present.
- General Manager for Mid America Pipe Services from November 2007 to May 2009. Responsible for the day-to-day operations of the pipeline cleaning, CCTV Inspection and Assessment work done by the Company's crews.
- Director of Field Operations for Insituform Technologies, Inc. form June 2004 to November 2007. Responsible for North American Field Operations of 65 crews producing $300 million in revenue annually.

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- Senior Operations Manager for Insituform Technologies West Coast Operations from March 2000 to June 2004. Responsible for day-to-day field operations for the West Coast based in Benicia CA.
- Operations Manager for Insituform Technologies/Insituform Mid America form March 1990 to March 2000. Responsible for the day-to-day field operations for the Midwest based in Chesterfield MO.
- Superintendent for Insituform Mid America from 1985 to March 1990. Directly managed pipe rehabilitation crews in the Midwest.

Tim Bussen - General Manager - Central Region

- Over 22 years' experience in the trenchless rehabilitation industry.
- Central Region General Manager of SAK from January 2017 to present, responsible for the management of business development, project management, engineering, and operations teams.
- Project Manager for SAK from January 2009 to January 2017, managed individual project size of more than $5 million and combined project size of $20 million annually.
- Project Engineer for SAK from July 2007 to January 2009 where he took over as Project Manager
- Affholder, Inc., worked in Estimating Department from June 2005 to September 2007, assisted in the bidding of sanitary and storm sewer projects; performed takeoffs; assisted the Project Managers and assisted in bid close outs.
- Insituform Technologies, Inc., Laborer from June 2001 to September 2003.
- B.S. in Construction Management from Missouri State University, Springfield, Missouri.

Tom Qualls - Chief Estimator Rehab Operations

- Over 23 years heavy civil construction experience and over 14 years' experience in trenchless rehabilitation industry including CIPP, SPR, Geopolymer and tunneling.
- Chief Estimator of SAK from January 2021 to present, responsible for the management of estimating team in multiple regions. Prepares and reviews cost estimates, engineering designs, and technical plans.
- Lead Estimator of SAK from July 2012 to December 2020, prepared takeoffs, estimates, engineering designs, and negotiated with subs and clients, while leading team of estimators.
- Project Engineer/Project Manager/Estimator for SAK from 2009 to June 2012, performed estimating duties while managing special projects.
- S.M. Wilson & Co., Concrete Strategies, Aquaterra Enviro Sol., Project Engineer, 2006- 2009
- W.L. Hailey & Co., Inc., Project Engineer, Shoal Creek Tunnel Project in Austin, TX 2005.
- Assisted Living Construction Company, Project Engineer Intern, Summer 2003
- Sterling Surveying and Engineering, Instrument/Rod Operator, 2000-2002
- Master of Business Administration, Southern Illinois University, Edwardsville, IL.
- B.S. in Civil Engineering, University of Missouri, Rolla, Missouri.

Cary Shaw - Business Development - Central Region

- Joined SAK in 2010, is responsible for Business Development in the Central Region
- 16 years' experience in project management, business management, business development and ownership serving as CEO and CFO of a privately held General Contracting & Land Development Entity providing services to the heavy commercial, multi-family and residential markets.
- 12 years with Cummins Engine Company serving roles during tenure as Director of Operations, Director of Materials and Plant Controller.
- 5 years in medical products industry serving in roles and performing responsibilities in Cost Accounting, Cost Analysis and as a Business Unit Controller.
- Member of Missouri Water Environment Association (MWEA), Kansas Water Environment Association (KWEA), Engineer's Club of Kansas City and Kansas City Chapter of National Underground Contractors Association (NUCA).
- B.A. in Business Administration, Benedictine College, Atchison, Kansas.

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Brent Adams – Senior Project Manager – Central Region.

- Over 19 years' experience in the trenchless rehabilitation industry.
- Project Manager for SAK from 2018 to present, responsible for managing multiple CIPP projects and maintaining open communication with the clients, inspectors, subcontractors, and residents throughout the life of the project.
- Business Development Manager for Thompson Pipe Group from 2017 to 2018.
- Various positions for Sekisui SPR Americas from 2011 to 2017. Positions included: SPR TM Division Manager, SPR Western Sales Manager, and SPR Midwest Sales Manager.
- Manager Sales Representative for McIntire Management Group from 2006 to 2011.
- Tech Support/Customer Service for Raven Lining Systems from 2004 to 2006.
- B.A. in Business Administration, University of Oklahoma Norman, OK.

Brandon Stangle – Senior Project Manager – Central Region.

- Over 14 years' experience in the trenchless rehabilitation industry.
- Senior Project Manager for SAK from March 2023 to present, responsible for managing multiple CIPP projects and maintaining open communication with the clients, inspectors, subcontractors, and residents throughout the life of the project.
- Area Director, Inliner Solutions from November 2022 to March 2023, responsible for account management, strategy implementation and planning.
- Operations Manager, Inliner Solutions/Granite Inliner, from August 2020 to November 2022 supervised the growth and improvement of operations effectiveness/efficiencies.
- Project Manager and Superintendent, Granite Inliner/Liquiforce, from March 2016 to October 2020, managed multiple projects generating over 12 million in revenues.
- Team Lead/Crew Member, Granite Inliner/Liquiforce from October 2008 to March 2016, responsible for daily activities of the crew and equipment.

Travis Jerrels – Project Manager – Central Region

- Over 8 years' experience in the construction industry, over 5 years' experience in the trenchless pipeline rehabilitation industry.
- Project Manager for SAK from February 2018 to present, responsible for managing multiple CIPP projects and maintain open communication with the clients, inspectors, subcontractors, and residents throughout the life of the project.
- Assistant Project Manager for SAK from July 2017 to February 2018.
- Field Engineer for SAK from October 2015 to July 2017.
- Project Engineer for Farnsworth Group, Inc. from 2012 to 2015.
- Foreman for Mike Dover Corporation from 2012 to 2012.
- Laborer for Mike Dover Corporation from 2006 to 2009 and in 2011.
- B.S. in Civil Engineering with a Mathematical Minor, Southern Illinois University Edwardsville.

Nick Pryor – Project Manager – Central Region

- Over 13 years' experience in the trenchless pipeline rehabilitation industry.
- Project Manager for SAK From February 2018 to present, responsible for managing multiple CIPP projects and maintaining open communication with the clients, inspectors, subcontractors, and residents throughout the life of the project.
- Assistant Project Manager for SAK from July 2017 to February 2018.
- Field Engineer for SAK from June 2012 to July 2017.
- Field Engineer for Mid America Pipe Services, LLC from 2011 to 2012.
- B.S. in Construction Management, Missouri State University, Springfield, Missouri.
- Associates of Arts Degree, Lewis and Clark Community College, Godfrey, IL.

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Chris Vogt - Project Manager - Central Region

- Over 9 years' experience in the construction industry, over 6 years' experience in the trenchless pipeline rehabilitation industry.
- Project Manager for SAK from February 2018 to present, responsible for managing multiple CIPP projects and maintaining open communication with the clients, inspectors, subcontractors, and residents throughout the life of the project.
- Assistant Project Manager for SAK from July 2017 to February 2018.
- Estimator for SAK from October 2014 to July 2017.
- Construction Manager for Jokerst Paving & Contracting from July 2009 to October 2014.
- Project Management Intern for Goodwin Brothers Construction from June 2008 to August 2008.
- Shop Laborer for Goodwin Brothers Construction from June 2007 to August 2007.
- B.S. in Construction Management, Missouri State University, Springfield, Missouri.
- Associates Degree in Business Administration, Meramec Community College, St. Louis, Missouri.

Jason Laney - General Superintendent - Central Region

- Over 24 years' experience in the pipeline rehabilitation industry with CIPP.
- General Superintendent for SAK from November 2007 to present, responsible for all phases of CIPP installation projects, crew management, coordination with subcontractors and General Contractors.
- Superintendent/Installer for Insituform Technologies, Inc. from 2001 to 2007. Responsible for crew's daily operation on projects throughout the Midwest and West Coast.
- Foreman for Insituform Technologies, Inc. from 1999 to 2001.
- Crew member for Insituform Technologies, Inc. from 1996 to 1999, duties included TV Technician and Lateral Lining Foreman.
- Supervisor experience installing 6-to-72-inch diameter CIPP.
- Foreman/Crew Member on the 2002 Trenchless Technology Project of Year Phoenix Salt River Outfall CIPP.

Jeff Hirtz - General Superintendent - Central Region

- Over 27 years' experience in the pipeline rehabilitation industry with CIPP.
- General Superintendent for SAK from November 2007 to present, responsible for all phases of CIPP installation projects, crew management, coordination with subcontractors and General Contractors.
- Superintendent/Installer for Insituform Technologies, Inc. from 2004 to 2007, responsible for the management of crews on the installation of 6-to-84-inch diameter CIPP projects throughout the Midwest and East Coast.
- Shop/Wet-Out Foreman for Insituform Technologies, Inc. from 1996 to 2004.

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Trenchless Experience

SAK Key Personnel have installed millions of linear feet of cured-in-place pipe and managed the installation of tens of millions of linear feet of cured in place pipe. SAK's personnel are among the most experienced and well-known in the industry. SAK as a Company has installed over 14 million feet of CIPP liner since being formed in 2006.

CIPP Liner Materials

SAK provides a CIPP product that is a proven technology. SAK utilizes several proven CIPP materials including Pipenology CIPP Liner and Applied Felts' AuqaCure ™.

Pipenology is a registered ISO 9001:2000 company which has produced over 10 million feet of SAK's installed CIPP. Pipenology uses several stringent Quality Control measures to ensure an excellent final product.

AquaCure ™ Coated Felt Inversion Liner manufactured by Applied Felts, Inc. who, with its parent company, Rawson Textiles, has provided polymer coated felt tubes for use in the CIPP lining industry for more than twenty (20) years. Applied Felts is a registered ISO 9001:2000 company which has produced CIPP tube installed by more than 300 contractors operating in more than 30 countries. More than 60 million linear feet of Applied Felts product has been installed worldwide, of which 35 million linear feet has been successfully installed in the United States. Applied Felts was the sole supplier of coated felt materials worldwide until the late 1980s, when Insituform Technologies, Inc. began manufacturing their own coated felt CIPP tubes.

SAK Construction, LLC is certified by Pipenology and Applied Felts to install their lining materials, follows their recommended installation procedures, and provides engineering support and technical assistance. Accompanying this document is a Qualification & Process License Certification for SAK Construction, LLC, along with literature on these proven liner materials, and a copy of the ISO 9001:2000 Certificates of Registration.

SAK utilizes cured-in-place pipe resins manufactured by AOC and Interplastics, leaders in the CIPP resin industry, and registered ISO 9001:2000 companies. The third-party test results supporting the short-term and long-term performance of the resin products we install are available upon request.

SAK has two permanent wet-out facilities where all the CIPP liners are wet-out for the United States:

- Headquarters Building - O'Fallon, MO
- West Regional Office - Rocklin, CA

SAK installs cured-in-place pipe in accordance with ASTM F1216 for inversion and curing.

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SAK™

Lou Krch
Senior Construction Manager

EDUCATION

Associates of Science, Industrial Electronics, Ferris State College, 1981

CERTIFICATIONS/ SKILLS

Confined Space Entry Training

First Aid Training

HazCom/HazMat Training

NASSCO PACP Certified

NASSCO ITCP Certified

NASSCO Certified ITCP Trainer

30-Hour OSHA Training

EXPERIENCE

Senior Construction Manager • SAK Construction, LLC July 2022 – Present

- Responsible for managing multiple CIPP projects and maintaining open communication with the client and inspectors throughout the life of the project
- Manage project budgets and create change order proposals as necessary for each project
- Create Project Summary Reports to track spending and revenue on projects each month
- Oversee project schedules to ensure the projects are completed within the time allotted on each contract
- Accountable for scheduling and managing subcontractors for point repairs, manhole installations, manhole rehab and pipe cleaning
- Create and supply clients with weekly project schedules
- Participate in client meetings before and during projects
- Conduct on-site safety audits throughout the project to ensure our employees and subcontractors maintain a safe work environment
- Lead subcontractor update meetings
- Procurement of materials of each project
- Generate design calculations to ensure proper thickness are used during CIPP installations
- Review and approve invoices
- Create exhibits for permits, traffic control, etc.
- Work with multiple municipalities to coordinate road/lane closures
- Responsible for working with homeowners/business owners to acquire a temporary workspace for construction

Operations Manager • Inliner Solutions
March 2022 – May 2022

- Directed support for CIPP installation crews, acting as liaison between management and installation teams
- Oversaw of field staff work schedules, performance evaluations and disciplinary actions
- Prepared accurate daily reporting
- Worked with Project Managers and Superintendents visiting job sites, reviewing specifications (prior to bidding) and reporting back on complications or

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- Organized required ancillary work, confirming that subcontractors are conforming to project specifications to maintain customer satisfaction
- Enforced Company polices to ensure employees are working safely and Company assets are protected

Operations Manager, Ohio Region • CSR/American Water/Reynolds Inliner/Layne Inliner/Granite Inliner
2000 – March 2022

- Directed support for CIPP installation crews, acting as liaison between management and installation teams
- Oversaw of field staff work schedules, performance evaluations and disciplinary actions
- Prepared accurate daily reporting
- Worked with Project Managers and Superintendents visiting job sites, reviewing specifications (prior to bidding) and reporting back on complications or
- Organized required ancillary work, confirming that subcontractors are conforming to project specifications to maintain customer satisfaction
- Enforced Company polices to ensure employees are working safely and Company assets are protected

Project Manager of BWSC Project • Miller Pipeline
1999 – 2000

- Scheduled and supervised installation of first fold and form project by Boston Water and Sewer
- Worked with client and Community to perform work in a high profile area
- Tracked production and job costs

Various Positions • Insituform Technologies, Inc.
1981 - 1999

- Operations Manager • 1988 - 1999
- Superintendent • 1984 - 1988
- Foreman • 1983 - 1984
- CCTV Operator • 1981 - 1983

  Responsibilities at Insituform included, but were not limited to:
  - Successfully manage numerous rehab project from preconstruction to project close out. Study project plans and specifications. Prepare and submit shop drawings. Schedule and ready projects for rehab

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construction, including security subcontractor mobilizations, material ordering and securing equipment. Prepare and review project change orders. Manage project cost and assist Project Manager with month end financial review; backlog; project site surveys; customer relations; subcontractor management.

- Responsible for project financials; Bid review; project schedules; accountable for project profit and loss; month end financial review; backlog reporting.
- Field Project management; scheduling subcontractors, project site surveys, bid review, material ordering and logistics of equipment.
- Analyzed quality control issues
- Oversaw and managed all aspects of daily crew activities
- Responsible for operating and maintaining CCTV equipment
- Responsible for providing quality video inspections of sewer mains and lateral connections to the mains

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Brandon Stangle
Senior Project Manager

CERTIFICATIONS/ SKILLS

PACP Certified

CDL - Class A Drivers License

EXPERIENCE

Senior Project Manager • SAK Construction, LLC
March 2023 – Present

- Responsible for project profitability
- Tracking job activities, scheduling and supervising Subcontractors
- Performing job site surveys, processing contract paperwork, verifying work and quantities
- Communicating with the customer, surveying and structural design
- Estimate and determine feasibility of CIPP projects
- Responsible for selection of Subcontractors to meet project demands
- Coordinate with CIPP operations in implementation and scheduling of projects
- Direct project meetings with clients, subcontractors and suppliers to ensure attainment of project objectives
- Manage all aspects of assigned projects within budgetary guidelines to client's satisfaction, while maintaining good working relationships

Area Director • Inliner Solutions
Nov. 2022 – March 2023

- Direction and Growth of 150+ employees
- Financial execution of $70 million generated revenue while meeting or exceeding expected margin %
- Implement and maintain fair and consistent business practices, which are followed at all levels
- Leadership of a team that is responsible for the account management, strategy implementation, and planning
- Provide input to Senior Management

Operations Manager • Inliner Solutions/Granite Inliner
Aug. 2020 – Nov, 2022

- Direction and growth of 50+ employees
- Support and drive yearly financial target set forth by leadership
- Weekly, Monthly and, Yearly Operational and Project Management
- Scheduling/tracking
- Operational execution of projects as bid. Identify project pickups through execution. Monthly financial forecasting.
- On Clock employee quality of life management

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Brandon Stangle
Senior Project Manager

- Performance feedback and review
- Yearly One on One reviews establishing and achieving personal yearly goals to support the Corporate Strategic Plan
- Hiring and Onboarding
- Building Management
- Equipment and Data Management
- Improvement of Operations Effectiveness/Efficiencies

Project Manager • Granite Inliner/Liquiforce
March 2016 – Aug, 2020

- Management of multiple projects generating over 12 million revenue yearly. Client Relationship
- Project Document Management
- Daily financial/operational tracking
- Monthly forecasting
- Project close out
- Billing
- Bridge between operations and the client
- Equipped team with required knowledge, resources and materials to successfully execute project work
- Coordinated project timelines, meeting agendas and next steps to move cross-functional projects forward
- Identified budget issues and resolved discrepancies
- Developed and updated project plans, including information such as objectives and schedules

Superintendent/Team Lead/Operator/Laborer • Liquiforce
March 2016 – Oct. 2008

- Ensuring crews are hitting production by following a KPI system
- Supporting the needs and safety of the field team.
- Met deadlines by prioritizing work orders and communicating with team. Controlled quality of finished products with regular inspections and non-destructive tests.
- Completed basic repairs to restore machine operation and improve performance. Monitored inventory usage and requisitioned new supplies.
- Recorded daily production data/daily hours
- Promoted workplace safety by following OSHA guidelines and reviewing

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MSDS information.

- Helped achieve daily production by employee cross-training.
- Used proper PPE and reported safety hazards to supervisors.
- Operation of field equipment

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SAK™

Ronald Gaedke
Superintendent

EDUCATION

United States Army
Sergeant E-5, 1987-1991

CERTIFICATIONS/ SKILLS

OSHA 10-Hour Certified

PACP

CDL Class B

EXPERIENCE

Superintendent • SAK Construction, LLC
April 2023 – Present

- Responsible for all phases of CIPP installation projects, crew management, coordination with project Subcontractors and General Contractors, to include:
  - Pre-site job evaluation
  - Pre-video inspection and measurement
  - Safety & project planning and managing crew hours
  - CIPP installation, cure and cut-out of diameters 6” to 96”
  - Lateral reinstatement and project closeout with clients
  - Scheduling multiple crews on multiple projects
  - Daily contact with inspectors and subcontractors
  - Managing crew hours
- Manage field costs and time to bring project in under budget
- Oversee and implement safety programs to provide a safe working environment for field personnel
- Analyze quality control issues
- Oversee resource allocation and use including equipment, materials and labor
- Engineer new designs for equipment
- Obtain required permits
- Create, update and apply project schedules to ensure work is completed without conflicts and within allocated contract time
- Review project requirements to determine how and when the project will be completed

Project Manager • Inliner Solutions/Grantie Inliner/Liquiforce Services
March 2009 – March 2023

- Managed multiple CIPP projects
- Responsible for project set-up, job layout, financial tracking, coordinating with clients, subcontractors, superintendents, and field crews.
- Ensured projects completed in a safe and timely manner within the specified budget.
- Previously served as Laborer/Operator, Construction Foreman, and Field Superintendent, 3, 7 and 4 years respectively.
- 10 years’ experience in CIPP/SCIPP installation, advanced pipe cleaning, Jet/Vac truck operator, CCTV Operator, robotic cutting and lateral

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reinstatements.

Delivery Driver • DHL
1993 – 2009

- CDL driver tasked with the daily pick-up and delivery of time sensitive freight on a dedicated route.

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SAK™

Dallas Oleszkowicz
Foreman

CERTIFICATIONS/ SKILLS

Forklift Certified

Fire Technology Certificate I&I

EXPERIENCE

Foreman • SAK Construction, LLC
April 2023 – Present

- Schedule, coordinate and advise the activities of crew.
- Manage and maintain equipment for the job.
- Provide leadership and supervision at the jobsite and enforce policies and working rules
- Continually inspect work performed by crew for quality and specification compliance
- Analyze and resolve work problems.
- Prepare and submit for review production, safety time and other reports, as necessary

Foreman • Inliner Solutions
March 2018 – March 2023

- Foreman since 2022
- Trained in CCTV and Tap Cutting.
- Tap Cutting since 2018.
- Trained in multiple aspects of full-length lining and point lining.

Assembly • Ford Motor Company
April 2016 – February 2018

- Forklift Driver in Material Handling.
- Delivered parts to correct locations on line to maintain production.
- Worked on multiple jobs in the unit and on hand to complete any of them.

Server • Provision Living
October 2012 – April 2016

- Delivered exceptional service by greeting and serving customers in a timely, friendly manner.
- Collaborated with other team members on special projects and events.

Firefighter • Van Buren Fire
2006 – 2007

- Responded to box alarms at all hours of the day.
- Fielded medical calls while on duty.
- Greeted many patients with a smile and did whatever possible to help.
- Worked multiple 12-hour shifts during the week.
- Accurately performed any jobs my superiors gave me while working

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2150 Dr. Martin Luther King Jr. St. | Indianapolis, IN | 46202
CitizensEnergyGroup.com

August 4, 2023

Re: Letter of Reference, SAK Construction, LLC

To whom it may concern,

SAK Construction, LLC has been contracted through Citizens Energy Group to provide Pipe Rehabilitation Services since February 2017. They have performed very well for us and have shown a great deal of flexibility with regard to workload. SAK provided primarily CIPP, Geopolymer and slip lining pipe lining services, but also managed several subcontractors that provided bypass pumping services, manhole rehabilitation, traffic control, pipe replacement, and restoration. All their work has been done to our quality standards and no project failed to meet our completion dates. SAK has been easy to work with and they do a good job coordinating with the public.

Sincerely,

Tim Shutters

Tim Shutters
Supervisor, Underground Engineering & Construction Group

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wastewater + stormwater

September 30, 2021

RE: Cured-in-Place Pipelining (CIPP) projects by SAK Construction

To Whom it May Concern:

The Metropolitan St. Louis Sewer District (MSD) has worked extensively with SAK Construction on multiple pipe rehabilitation contracts since 2007. In that time, they have completed numerous CIPP projects of multiple sizes. SAK has demonstrated the ability to complete work on time and on budget. SAK performs their work both professionally and competently. SAK is also knowledgeable and competent in the planning and implementation of complex by-pass pumping operations and systems.

MSD's service area covers over 520 square miles and our system is comprised of approximately 9000 miles of sanitary, combined and stormwater sewers.

SAK Construction has been a pre-qualified contractor for MSD in both sewer rehabilitation and underground tunneling work since 2007.

If you should need further details or specific project information, please feel free to contact me at (314) 768-6285 or rlunve@stlmsd.com.

Sincerely,

Richard L. Unverferth, P.E.
Director of Engineering

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UNIFIED GOVERNMENT
Wyandotte County • Kansas City, Kansas

PUBLIC WORKS
WATER POLLUTION CONTROL

ADMINISTRATION 50 MARKET STREET, KANSAS CITY, KANSAS 66118 (913) 573-1300

July 23, 2020

SAK Construction
Attn: Brent Adams
864 Hoff Road
O'Fallon, MO 63366

Re: Critical Pipe Rehabilitation beneath Interstate I-435

Brent,

I would like to formally thank SAK Construction for the successful rehabilitation of the critical 36" pipe that runs beneath Interstate I-435.

This pipe being approximately 1,800 liner feet long and 85' deep underneath Interstate I-435 brought risks and unique challenges. This pipe carried most of the sanitary sewer flows from the Western portion of our service area without any redundancy. To ensure maximum future sewer capacity, the Unified Government (UG) specified CIPP to rehabilitate the pipe. Also, the specifications required the CIPP liner to be continuous the entire 1800' length.

I'd like to thank the SAK's staff for working with our consultants to develop the proper CIPP design criteria and for bringing their extensive knowledge of on-site wet out installations to this project. I'd also like to acknowledge the hard work of the field staff that worked 24/7 Monday through Thursday to install the CIPP liner. Your team accepted and embraced the challenges of this pipe rehabilitation and successfully completed the project.

Again, Thank you for a successful completion of this challenging pipe rehabilitation.

Sincerely,

Joseph W. Barnes
Water Pollution Control - Project Manager

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CONFIDENTIAL

Quality Management System Manual

SAK Construction, LLC
CIPP Division

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SAK Construction, LLC, CIPP Division
Quality Management System Manual

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SAK™

Pipeline Infrastructure. Solved.™

QA/QC Plan and Work Instructions For CIPP Installation and Services

Reference: Quality Management System Manual
Section 7.5.1 Control of Production and Service

SAK Construction, LLC | 864 Hoff Road | O'Fallon, MO 63366 | 636.385.1000

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SAK™
Pipeline Infrastructure. Solved.™

636.385.1000 tel
636.385.1100 fax
864 Hoff Road
O'Fallon, MO 63366
www.sakcon.com

Introduction and Table of Contents

Introduction:

These guidelines and work instructions are provided to assure that CIPP installations are performed according to ASTM procedures, manufacturer's recommendations, and contract specifications.

Table of Contents:

1.0 Contract Specifications and Engineering Application

1.1 Design Calculations

2.0 Project Management and Planning

3.0 CIPP Installation Outline, Planning, and Instructions

4.0 Pre-Installation Cleaning and Video Requirements

5.0 Processing CIPP with Steam

6.0 CIPP Inversion with Water

7.0 Cure Procedure for Polyester Resin in CIPP Applications

8.0 Post-Installation Video Requirements

9.0 CIPP Sampling Procedures

10.0 CIPP Testing Procedures

The information provided from the Quality Management System Manual, including the QA/QC Plan and Work Instructions for CIPP Installation and Services are proprietary and have been reduced to the Table of Contents for Confidentiality Reasons. If additional information is requested it can be discussed or provided (if necessary) at a later time.

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Section B.

WORKPLACE SAFETY

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B. Workplace Safety

1. Provide a copy of the bidder's safety program, and evidence of a safety-training program for employees addressing potential hazards of the proposed job site. Bidder must identify a designated qualified safety representative responsible for bidder's safety program who serves as a contact for safety related matters.

   Please see attachment labeled "Safety and Accident Prevention Plan TOC." Full copy of plan available upon request.

   Harry Miller is our Safety Director, please see attached resume.

2. Provide the bidder's Experience Modification Rating ("EMR") for the last three consecutive years. Preference within this criterion will be given to an EMR of 1.0 or less based on a three-year average.

SAK EMR Rating	
2023	0.59
2022	0.52
2021	0.52

3. Evidence that all craft labor that will be employed by the bidder for the project has, or will have prior to project commencement, completed at least an authorized 10-hour OSHA Construction Safety Course.

   OSHA 10-hour construction certification training is a requirement for SAK current and new hire crew members. SAK provides annual and monthly safety training for all employees.

4. For the last three years provide a copy of any documented violations and the bidder's corrective actions as a result of inspections conducted by the Michigan Occupational Safety & Health Administration (MIOSHA), U.S. Department of Labor – Occupational Safety and Health Administration (OSHA), or any other applicable safety agency.

   Please see attachment labeled "OSHA Log 300 and Summary 300A for the past three years.

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SAFETY AND ACCIDENT PREVENTION PLAN

Jerry Shaw
President

SAK™
Pipeline Infrastructure. Solved.™

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SAFETY AND ACCIDENT PREVENTION PLAN
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Tunnels, Shafts and Blasting Procedures

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2. Safety Recognition Program
3. Code of Safe Practices
4. Cell Phone Policy
5. Drug Free Workplace and Substance Abuse Policy
6. DOT Substance Abuse and Alcohol Misuse
7. Tunnel Evacuation Procedures
8. Accident Reporting Procedures
9. Backing Techniques
10. Hazardous Materials Emergency Action Plan

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SAK™
Pipeline Infrastructure. Solved.™

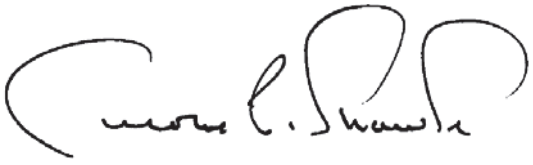
FOCUS on SAFETY
STOP. THINK. ACT.

HEALTH & SAFETY COMMITMENT

SAK Construction, LLC is committed to providing a safe and healthy workplace for all our employees.

SAK Construction, LLC will strive to comply with all relevant government regulations regarding personal health and safety. We will encourage good safety habits in every aspect of our Company's activities by maintaining an effective accident prevention program. This program will provide training and control exposure to hazardous situations both on the jobsite and at home. In every activity of our business, we expect a commitment to safety and active participation of every employee in our comprehensive safety effort.

In all our activities, the health and safety of our people is not to be compromised or placed at risk for any reason.



Jerry P. Shaw
President
SAK Construction, LLC

_____
Employee Signature

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Harry Miller
Safety Director

Overview

Harry has 15 years' experience as a Safety, Health, and Environmental Professional progressing through greater levels of responsibility. Through proven leadership, relationships with employers, business owners and craft workers has proactively impacted safety. Through experience and education, working together in teams to achieve the goal of an incident free workplace that carriers over into everyday life decisions.

Education

B.A. Human Resource Management – Lindenwood University, Manga Cum Laude, June 2005
M.S.A. Business Emphasis – Lindenwood University, CGPA 3.68, June 2007

Professional Registrations and Certifications

BCSP Certified Safety Professional CSP #20633
BCSP Construction Safety & Health Technician CHST #C1462
OSHA 500 Construction Instructor
OSHA 501 General Industry Instructor
Scaffold Training Institute "Competent Person/Builder" Instructor
Past President of The St. Louis ASSE Chapter
Professional Member of ASSE
Member ANSI A.10.8 Scaffold Subcommittee
Member ANSI.A.10.49 Health Hazards Subcommittee
Construction Safety Group KC Conference Planning

Employment History

SAK Construction, LLC – Safety Director Jan. 2015– Present

- Responsibilities include supervision of regional safety managers
- Work with regional managers to develop safety related goals
- Perform site audits, inspections, incident investigations and training
- Track and manage work comp claims
- Development of new policies and procedures to improve corporate safety culture

Black & Veatch Construction – Division Safety Manager Sept 2012 – Jan. 2015

- Responsibilities include supervision of safety professionals on projects within the continental US and Alaska
- Champion and coordinator of an Employee Improvement Program (EIP), a behavioral system developed for both employees and supervision using Geller and Kraus principles
- Development of new technologies to enhance EIP, training, and tracking of observations and trends

Carpenters District Council of Greater St. Louis & Vicinity – Director of Safety & Health April 2006 – Sept 2012

- Represented approximately 22,000 union craft members and 1,800 signatory contractors in a three state region
- Responsibilities included supervision of 34 Local Union Safety Directors/Trainers
- Work with signatory contractors on residential/wood frame commercial construction projects
- Assisted small to medium sized contractors in development of written safety programs and implementation of programs resulting in reduced incidents and reduction of EMR and RIR rates

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- Performed site safety audits for small to medium sized contractors to identify and correct hazards, training, and provide assistance with OSHA related issues
- Implemented safe work practices on residential construction sites that lead to zero citations during OSHA focused inspections

Workplace Solutions, LLC – Owner April 2006 – July 2011

- Assisted small to medium sized contactors in the development of written safety programs and implementation of programs resulting in reduced incidents and reduction of EMR and RIR rates
- Performed site safety audits for small to medium sized contractors to identify and correct hazards, training, and provide assistance with OSHA related issues
- Implemented safe work practices on residential construction sites that lead to zero citations during OSHA focused inspections
- Regional manager for a $2.6 million High Growth Training Grant awarded to the Carpenters District Council from the Department of Labor Training Initiatives

Productive Workforce Development, LLC – Partner Feb 2001 – March 2006

- Assisted small to medium sized contactors in the development of written safety programs and implementation of programs resulting in reduced incidents and reduction of EMR and RIR rates
- Performed site safety audits for small to medium sized contractors to identify and correct hazards, training, and provide assistance with OSHA related issues
- Implemented safe work practices on residential construction sites that lead to zero citations during OSHA focused inspections
- Developed and provided job readiness training for offender reentry
- Assisted in workforce development for offender reentry

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OSHA's Form 300A (Rev 04/2004)

Summary of Work-Related Injuries and Illnesses

Note: You can type input into this form and save it.
Because the forms in this recordkeeping package are "fillable/writable" PDF documents, you can type into the input form fields and then save your inputs using the free Adobe PDF Reader.

Year 20 22

U.S. Department of Labor
Occupational Safety and Health Administration

Form approved OMB no 1218-0176

All establishments covered by Part 1904 must complete this Summary page, even if no work-related injuries or illnesses occurred during the year. Remember to review the Log to verify that the entries are complete and accurate before completing this summary.

Using the Log, count the individual entries you made for each category. Then write the totals below, making sure you've added the entries from every page of the Log. If you had no cases, write "0."

Employees, former employees, and their representatives have the right to review the OSHA Form 300 in its entirety. They also have limited access to the OSHA Form 301 or its equivalent. See 29 CFR Part 1904.35, in OSHA's recordkeeping rule, for further details on the access provisions for these forms.

Number of Cases

Total number of deaths	Total number of cases with days away from work	Total number of cases with job transfer or restriction	Total number of other recordable cases
0	2	4	13
(G)	(H)	(I)	(J)

Number of Days

Total number of days away from work	Total number of days of job transfer or restriction
55	104
(K)	(L)

Injury and Illness Types

Total number of... (M)			
(1) Injuries	19	(4) Poisonings	0
(2) Skin disorders	0	(5) Hearing loss	0
(3) Respiratory conditions	0	(6) All other illnesses	0

Post this Summary page from February 1 to April 30 of the year following the year covered by the form.

Public reporting burden for this collection of information is estimated to average 58 minutes per response, including time to review the instructions, search and gather the data needed, and complete and review the collection of information. Persons are not required to respond to the collection of information unless it displays a currently valid OMB control number. If you have any comments about these estimates or any other aspects of this data collection, contact: US Department of Labor, OSHA Office of Statistical Analysis, Room N-3644, 200 Constitution Avenue, NW, Washington, DC 20210. Do not send the completed forms to this office.

Establishment information

Your establishment name: SAK Construction

Street: 864 Hoff Road

City: O'Fallon State: MO Zip: 63366

Industry description (*e.g., Manufacture of motor truck trailers*)

Sewer Utility Repair and Underground Construction (Tunneling)

North American Industrial Classification (NAICS), if known (e.g., 336212)

2 3 7 1 1 0

Employment information *(If you don't have these figures, see the Worksheet on the next page to estimate.)*

Annual average number of employees: 512

Total hours worked by all employees last year: 1,171,927.80

Sign here

Knowingly falsifying this document may result in a fine.

I certify that I have examined this document and that to the best of my knowledge the entries are true, accurate, and complete.

Company executive Title

Phone 636-385-1012 Date 1/30/23

Reset

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OSHA's Form 300 (Rev. 04/2004)

Log of Work-Related Injuries and Illnesses

Note: You can type input into this form and save it. Because the forms in this recordkeeping package are "fillable/writable" PDF documents, you can type into the input form fields and then save your inputs using the free Adobe PDF Reader. In addition, the forms are programmed to auto-calculate as appropriate.

Attention: This form contains information relating to employee health and must be used in a manner that protects the confidentiality of employees to the extent possible while the information is being used for occupational safety and health purposes.

Year 20 22

U.S. Department of Labor
Occupational Safety and Health Administration

Form approved OMB no. 1218-0176

Please Record:
- Information about every work-related death and about every work-related injury or illness that involves loss of consciousness, restricted work activity or job transfer, days away from work, or medical treatment beyond first aid.
- Significant work-related injuries and illnesses that are diagnosed by a physician or licensed health care professional.
- Work-related injuries and illnesses that meet any of the specific recording criteria listed in 29 CFR Part 1904.8 through 1904.12.

Reminders:
- Complete an Injury and Illness Incident Report (OSHA Form 301) or equivalent form for each injury or illness recorded on this form. If you're not sure whether a case is recordable, call your local OSHA office for help.
- Feel free to use two lines for a single case if you need to.
- Complete the 5 steps for each case.

Establishment name: SAK Construction

City: O'Fallon State: Missouri

Step 1. Identify the person			Step 2. Describe the case			Step 3. Classify the case (SELECT ONLY ONE circle based on the most serious outcome:)				Step 4. Enter the number of days the injured or ill worker was:		Step 5. Select one column:						
								Remained at Work						(M) Illness					
(A) Case no.	(B) Employee's name	(C) Job title (e.g., Welder)	(D) Date of injury or onset of illness (e.g., 2/10)	(E) Where the event occurred (e.g., Loading dock north end)	(F) Describe injury or illness, parts of body affected, and object/substance that directly injured or made person ill (e.g., Second degree burns on right forearm from acetylene torch)	Death (G)	Days away from work (H)	Job transfer or restriction (I)	Other record-able cases (J)	Away from work (K)	On job transfer or restriction (L)	Injury (1)	Skin disorder (2)	Respiratory condition (3)	Poisoning (4)	Hearing loss (5)	All other illnesses (6)
Reset 1		Tunnel Laborer	1 / 3	Job site	Crushed Left Hand between crane block & muck box	○	○	◉	○	____ days	14 ____ days	◉	○	○	○	○	○
Reset 2		Rehab Laborer	3 / 2	Tucson, AZ	Motor vehicle accident resulting in various sprains	○	○	◉	○	____ days	10 ____ days	◉	○	○	○	○	○
Reset 3		Tunnel Laborer	5 / 20	Job site	SRL locked and he fell fracturing left wrist	○	○	◉	○	____ days	40 ____ days	◉	○	○	○	○	○
Reset 4		Rehab Laborer	5 / 26	Job site	Dislocated Left elbow when he fell crossing a fence	○	○	◉	○	____ days	33 ____ days	◉	○	○	○	○	○
Reset 5		Sr. Admin Asst	5 / 31	Parking Lot	Fell while walking in parking lot and broke left arm	○	○	○	◉	____ days	____ days	◉	○	○	○	○	○
Reset 6		Wetout Technician	6 / 6	Job site	Right arm lacerations, fell into tanker's sheet metal wheel covers	○	○	○	◉	____ days	____ days	◉	○	○	○	○	○
Reset 7		Operator	6 / 17	Job site Parking Lot	Lacerations & left knee contusion; due to fall in parking lot	○	○	○	◉	____ days	____ days	◉	○	○	○	○	○
Reset 8		Rehab Laborer	7 / 9	Job site	Right shoulder laceration due to chain saw kickback	○	○	○	◉	____ days	____ days	◉	○	○	○	○	○
Reset 9		Operator	8 / 11	Job site	Stepped off trailer and knee popped;Right Knee Meniscus Tear	○	○	○	◉	____ days	____ days	◉	○	○	○	○	○
Reset 10		Asst Construction Mgr	8 / 22	Job site	Fracture of Middle Right Finger; caught between 2 timbers	○	○	○	◉	____ days	____ days	◉	○	○	○	○	○
					Page totals ▶	0	0	4	6	0	97	10	0	0	0	0	0

Be sure to transfer these totals to the Summary page (Form 300A) before you post it.

Add a Form Page

Public reporting burden for this collection of information is estimated to average 14 minutes per response, including time to review the instructions, search and gather the data needed, and complete and review the collection of information. Persons are not required to respond to the collection of information unless it displays a currently valid OMB control number. If you have any comments about these estimates or any other aspects of this data collection, contact: US Department of Labor, OSHA Office of Statistical Analysis, Room N-3644, 200 Constitution Avenue, NW, Washington, DC 20210. Do not send the completed forms to this office.

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OSHA's Form 300 (Rev. 04/2004)

Log of Work-Related Injuries and Illnesses

Note: You can type input into this form and save it. Because the forms in this recordkeeping package are "fillable/writable" PDF documents, you can type into the input form fields and then save your inputs using the free Adobe PDF Reader. In addition, the forms are programmed to auto-calculate as appropriate.

Attention: This form contains information relating to employee health and must be used in a manner that protects the confidentiality of employees to the extent possible while the information is being used for occupational safety and health purposes.

Year 20 22

U.S. Department of Labor
Occupational Safety and Health Administration

Form approved OMB no. 1218-0176

Please Record:
- Information about every work-related death and about every work-related injury or illness that involves loss of consciousness, restricted work activity or job transfer, days away from work, or medical treatment beyond first aid.
- Significant work-related injuries and illnesses that are diagnosed by a physician or licensed health care professional.
- Work-related injuries and illnesses that meet any of the specific recording criteria listed in 29 CFR Part 1904.8 through 1904.12.

Reminders:
- Complete an Injury and Illness Incident Report (OSHA Form 301) or equivalent form for each injury or illness recorded on this form. If you're not sure whether a case is recordable, call your local OSHA office for help.
- Feel free to use two lines for a single case if you need to.
- Complete the 5 steps for each case.

Establishment name: SAK Construction

City: O'Fallon State: Missouri

Step 1. Identify the person			Step 2. Describe the case			Step 3. Classify the case (SELECT ONLY ONE circle based on the most serious outcome:)				Step 4. Enter the number of days the injured or ill worker was:		Step 5. Select one column:						
							Remained at Work						(M) Illness					
(A) Case no.	(B) Employee's name	(C) Job title (e.g., Welder)	(D) Date of injury or onset of illness (e.g., 2/10)	(E) Where the event occurred (e.g., Loading dock north end)	(F) Describe injury or illness, parts of body affected, and object/substance that directly injured or made person ill (e.g., Second degree burns on right forearm from acetylene torch)	Death (G)	Days away from work (H)	Job transfer or restriction (I)	Other record-able cases (J)	Away from work (K)	On job transfer or restriction (L)	Injury (1)	Skin disorder (2)	Respiratory condition (3)	Poisoning (4)	Hearing loss (5)	All other illnesses (6)
Reset 11		Rehab Laborer	8/24 month / day	Job site	Fractured Nose by pressurized cam lock.	○	●	○	○	36 days	____ days	●	○	○	○	○	○
Reset 12		Rehab Foreman	8/27 month / day	Job site	2nd Degree Burn from boiler hose.	○	○	○	●	____ days	____ days	●	○	○	○	○	○
Reset 13		Rehab Laborer	9/15 month / day	Job site	Left Eardrum hole due to pressured air blast.	○	○	○	●	____ days	____ days	●	○	○	○	○	○
Reset 14		Rehab Laborer	9/16 month / day	Job site	Slip/fall resulting in right shoulder strain/contusion	○	○	○	●	____ days	____ days	●	○	○	○	○	○
Reset 15		Tunnel Laborer	10/17 month / day	Job site	Fractured fingers when metal fell on hand.	○	○	○	●	____ days	____ days	●	○	○	○	○	○
Reset 16		Rehab Laborer	11/3 month / day	Job site	Foot Slipped resulting in a strained knee.	○	○	○	●	____ days	____ days	●	○	○	○	○	○
Reset 17		Rehab Laborer	11/16 month / day	Job site	Crushed fingers when manhole lid fell.	○	○	○	●	____ days	____ days	●	○	○	○	○	○
Reset 18		Rehab Laborer	11/22 month / day	Job site	Left leg contusion, torn meniscus from air hose.	○	●	○	○	19 days	7 days	●	○	○	○	○	○
Reset 19		Assembly Operator	12/19 month / day	Manufacturing	Cut right bicep with razer knife.	○	○	○	●	____ days	____ days	●	○	○	○	○	○
Reset			___/___ month / day			○	○	○	○	____ days	____ days	○	○	○	○	○	○
					Page totals ▶	0	2	0	7	55	7	9	0	0	0	0	0
												(1) Injury	(2) Skin disorder	(3) Respiratory condition	(4) Poisoning	(5) Hearing loss	(6) All other illnesses

Add a Form Page

Be sure to transfer these totals to the Summary page (Form 300A) before you post it.

Public reporting burden for this collection of information is estimated to average 14 minutes per response, including time to review the instructions, search and gather the data needed, and complete and review the collection of information. Persons are not required to respond to the collection of information unless it displays a currently valid OMB control number. If you have any comments about these estimates or any other aspects of this data collection, contact: US Department of Labor, OSHA Office of Statistical Analysis, Room N-3644, 200 Constitution Avenue, NW, Washington, DC 20210. Do not send the completed forms to this office.

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OSHA's Form 300A (Rev. 04/2004)

Summary of Work-Related Injuries and Illnesses

Note: You can type input into this form and save it.
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Year 20 21

U.S. Department of Labor
Occupational Safety and Health Administration

Form approved OMB no. 1218-0176

All establishments covered by Part 1904 must complete this Summary page, even if no work-related injuries or illnesses occurred during the year. Remember to review the Log to verify that the entries are complete and accurate before completing this summary.

Using the Log, count the individual entries you made for each category. Then write the totals below, making sure you've added the entries from every page of the Log. If you had no cases, write "0."

Employees, former employees, and their representatives have the right to review the OSHA Form 300 in its entirety. They also have limited access to the OSHA Form 301 or its equivalent. See 29 CFR Part 1904.35, in OSHA's recordkeeping rule, for further details on the access provisions for these forms.

Number of Cases

Total number of deaths	Total number of cases with days away from work	Total number of cases with job transfer or restriction	Total number of other recordable cases
0	1	1	2
(G)	(H)	(I)	(J)

Number of Days

Total number of days away from work	Total number of days of job transfer or restriction
93	60
(K)	(L)

Injury and Illness Types

Total number of . . . (M)			
(1) Injuries	4	(4) Poisonings	0
(2) Skin disorders	0	(5) Hearing loss	0
(3) Respiratory conditions	0	(6) All other illnesses	0

Post this Summary page from February 1 to April 30 of the year following the year covered by the form.

Public reporting burden for this collection of information is estimated to average 58 minutes per response, including time to review the instructions, search and gather the data needed, and complete and review the collection of information Persons are not required to respond to the collection of information unless it displays a currently valid OMB control number If you have any comments about these estimates or any other aspects of this data collection, contact: US Department of Labor, OSHA Office of Statistical Analysis, Room N-3644, 200 Constitution Avenue, NW, Washington, DC 20210 Do not send the completed forms to this office

Establishment information

Your establishment name: SAK Construction

Street: 864 Hoff Road

City: O'Fallon State: MO Zip: 63366

Industry description (*e.g., Manufacture of motor truck trailers*)

Sewer Utility Repair and Underground Construction (Tunneling)

North American Industrial Classification (NAICS), if known (e.g., 336212)

2 3 7 1 1 0

Employment information *(If you don't have these figures, see the Worksheet on the next page to estimate.)*

Annual average number of employees: 475

Total hours worked by all employees last year: 1,132,283.20

Sign here

Knowingly falsifying this document may result in a fine.

I certify that I have examined this document and that to the best of my knowledge the entries are true, accurate, and complete.

Company executive Title PRES. Asst

Phone 636-385-1012 Date 1/28/22

Reset

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OSHA's Form 300 (Rev. 04/2004)

Log of Work-Related Injuries and Illnesses

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Year 20 21

U.S. Department of Labor
Occupational Safety and Health Administration

Form approved OMB no. 1218-0176

Please Record:
- *Information about every work-related death and about every work-related injury or illness that involves loss of consciousness, restricted work activity or job transfer, days away from work, or medical treatment beyond first aid.*
- *Significant work-related injuries and illnesses that are diagnosed by a physician or licensed health care professional.*
- *Work-related injuries and illnesses that meet any of the specific recording criteria listed in 29 CFR Part 1904.8 through 1904.12.*

Reminders:
- *Complete an Injury and Illness Incident Report (OSHA Form 301) or equivalent form for each injury or illness recorded on this form. If you're not sure whether a case is recordable, call your local OSHA office for help.*
- *Feel free to use two lines for a single case if you need to.*
- *Complete the 5 steps for each case.*

Establishment name: SAK Construction

City: O'Fallon State: MO

Step 1. Identify the person			Step 2. Describe the case			Step 3. Classify the case (SELECT ONLY ONE circle based on the most serious outcome:)				Step 4. Enter the number of days the injured or ill worker was:		Step 5. Select one column:						
							Remained at Work							Illness				
(A) Case no.	(B) Employee's name	(C) Job title (e.g., Welder)	(D) Date of injury or onset of illness (e.g., 2/10)	(E) Where the event occurred (e.g., Loading dock north end)	(F) Describe injury or illness, parts of body affected, and object/substance that directly injured or made person ill (e.g., Second degree burns on right forearm from acetylene torch)	Death (G)	Days away from work (H)	Job transfer or restriction (I)	Other record-able cases (J)	Away from work (K)	On job transfer or restriction (L)	(M) Injury (1)	Skin disorder (2)	Respiratory condition (3)	Poisoning (4)	Hearing loss (5)	All other illnesses (6)
Reset 1		Laborer	1 / 27	Company Truck	Torn meniscus; left knee	○	◉	○	○	93 days	days	◉	○	○	○	○	○
Reset 2		Laborer	2 / 1	Yard	Fracture of left wrist	○	○	○	◉	days	days	◉	○	○	○	○	○
Reset 3		Laborer	4 / 20	In Sewer	Laceration of upper left leg	○	○	○	◉	days	days	◉	○	○	○	○	○
Reset 4		Laborer	8 / 18	Job Site	Strained back	○	○	◉	○	days	60 days	◉	○	○	○	○	○
Reset			/			○	○	○	○	days	days	○	○	○	○	○	○
Reset			/			○	○	○	○	days	days	○	○	○	○	○	○
Reset			/			○	○	○	○	days	days	○	○	○	○	○	○
Reset			/			○	○	○	○	days	days	○	○	○	○	○	○
Reset			/			○	○	○	○	days	days	○	○	○	○	○	○
Reset			/			○	○	○	○	days	days	○	○	○	○	○	○
Page totals ▶						0	1	1	2	93	60	4	0	0	0	0	0
												(1)	(2)	(3)	(4)	(5)	(6)

Add a Form Page

Be sure to transfer these totals to the Summary page (Form 300A) before you post it.

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OSHA's Form 300A (Rev 04/2004)

Summary of Work-Related Injuries and Illnesses

Note: You can type input into this form and save it.
Because the forms in this recordkeeping package are "fillable/writable" PDF documents, you can type into the input form fields and then save your inputs using the free Adobe PDF Reader.

Year 20 20

U.S. Department of Labor
Occupational Safety and Health Administration

Form approved OMB no. 1218-0176

All establishments covered by Part 1904 must complete this Summary page, even if no work-related injuries or illnesses occurred during the year. Remember to review the Log to verify that the entries are complete and accurate before completing this summary.

Using the Log, count the individual entries you made for each category. Then write the totals below, making sure you've added the entries from every page of the Log. If you had no cases, write "0."

Employees, former employees, and their representatives have the right to review the OSHA Form 300 in its entirety. They also have limited access to the OSHA Form 301 or its equivalent. See 29 CFR Part 1904.35, in OSHA's recordkeeping rule, for further details on the access provisions for these forms.

Number of Cases

Total number of deaths	Total number of cases with days away from work	Total number of cases with job transfer or restriction	Total number of other recordable cases
0	5	0	4
(G)	(H)	(I)	(J)

Number of Days

Total number of days away from work	Total number of days of job transfer or restriction
463	0
(K)	(L)

Injury and Illness Types

Total number of ... (M)			
(1) Injuries	9	(4) Poisonings	0
(2) Skin disorders	0	(5) Hearing loss	0
(3) Respiratory conditions	0	(6) All other illnesses	0

Post this Summary page from February 1 to April 30 of the year following the year covered by the form.

Public reporting burden for this collection of information is estimated to average 58 minutes per response, including time to review the instructions, search and gather the data needed, and complete and review the collection of information. Persons are not required to respond to the collection of information unless it displays a currently valid OMB control number. If you have any comments about these estimates or any other aspects of this data collection, contact: US Department of Labor, OSHA Office of Statistical Analysis, Room N-3644, 200 Constitution Avenue, NW, Washington, DC 20210. Do not send the completed forms to this office.

Establishment information

Your establishment name: SAK Construction, LLC

Street: 864 Hoff Road

City: O'Fallon State: MO Zip: 63366

Industry description (e.g., *Manufacture of motor truck trailers*)

Sewer Utility Repair and Underground Construction (Tunneling)

North American Industrial Classification (NAICS), if known (e.g., 336212)

2 3 7 1 1 0

Employment information *(If you don't have these figures, see the Worksheet on the next page to estimate.)*

Annual average number of employees: 450

Total hours worked by all employees last year: 1,071,037.61

Sign here

Knowingly falsifying this document may result in a fine.

I certify that I have examined this document and that to the best of my knowledge the entries are true, accurate, and complete.

Company executive

Title CFO

Phone 314 409 1765 Date 1/26/21

Reset

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OSHA's Form 300 (Rev. 04/2004)

Log of Work-Related Injuries and Illnesses

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Attention: This form contains information relating to employee health and must be used in a manner that protects the confidentiality of employees to the extent possible while the information is being used for occupational safety and health purposes.

Year 20 20

U.S. Department of Labor
Occupational Safety and Health Administration

Form approved OMB no. 1218-0176

Please Record:
- *Information about every work-related death and about every work-related injury or illness that involves loss of consciousness, restricted work activity or job transfer, days away from work, or medical treatment beyond first aid.*
- *Significant work-related injuries and illnesses that are diagnosed by a physician or licensed health care professional.*
- *Work-related injuries and illnesses that meet any of the specific recording criteria listed in 29 CFR Part 1904.8 through 1904.12.*

Reminders:
- *Complete an Injury and Illness Incident Report (OSHA Form 301) or equivalent form for each injury or illness recorded on this form. If you're not sure whether a case is recordable, call your local OSHA office for help.*
- *Feel free to use two lines for a single case if you need to.*
- *Complete the 5 steps for each case.*

Establishment name: SAK Construction, LLC

City: O'Fallon State: MO

Step 1. Identify the person			Step 2. Describe the case			Step 3. Classify the case (SELECT ONLY ONE circle based on the most serious outcome:)				Step 4. Enter the number of days the injured or ill worker was:		Step 5. Select one column:
(A) Case no.	(B) Employee's name	(C) Job title (e.g., Welder)	(D) Date of injury or onset of illness (e.g., 2/10)	(E) Where the event occurred (e.g., Loading dock north end)	(F) Describe injury or illness, parts of body affected, and object/substance that directly injured or made person ill (e.g., Second degree burns on right forearm from acetylene torch)		Remained at Work					(M) Illness
						Death (G)	Days away from work (H)	Job transfer or restriction (I)	Other record-able cases (J)	Away from work (K)	On job transfer or restriction (L)	(1) Injury; (2) Skin disorder; (3) Respiratory condition; (4) Poisoning; (5) Hearing loss; (6) All other illnesses
Reset 1		Laborer	1/22 month / day	Creek Bank	Employee slipped while walking on creek bank and hit his head.	○	●	○	○	129 days	____ days	● ○ ○ ○ ○ ○
Reset 2		Laborer	2/27 month / day	CIPP Install Site	Right Little finger smashed against manhole.	○	○	○	●	____ days	____ days	● ○ ○ ○ ○ ○
Reset 3		Laborer	3/3 month / day	Install Job Site	Cut left thumb with razer knife.	○	●	○	○	115 days	____ days	● ○ ○ ○ ○ ○
Reset 4		Laborer	5/18 month / day	CIPP Install Site	Cut left hand using electric grinder.	○	○	○	●	____ days	____ days	● ○ ○ ○ ○ ○
Reset 5		Laborer	6/15 month / day	Pipenology-Wetout	Felt roller fell striking him on the neck/shoulder/head area	○	○	○	●	____ days	____ days	● ○ ○ ○ ○ ○
Reset 6		Laborer	8/26 month / day	CIPP Install Site	Left thumb laceration from grinder.	○	○	○	●	____ days	____ days	● ○ ○ ○ ○ ○
Reset 7		Laborer	10/7 month / day	CIPP Install Site	Right ankle fracture when he fell from trailer.	○	●	○	○	79 days	____ days	● ○ ○ ○ ○ ○
Reset 8		Laborer	10/14 month / day	Tunnel Job Site	Right ankle fracture/strain when he stepped into loci switch.	○	●	○	○	66 days	____ days	● ○ ○ ○ ○ ○
Reset 9		Laborer	10/16 month / day	CIPP Install Site	Head struck concrete wall.	○	●	○	○	74 days	____ days	● ○ ○ ○ ○ ○
Reset			/ month / day			○	○	○	○	____ days	____ days	○ ○ ○ ○ ○ ○
					Page totals ▶	0	5	0	4	463	0	9 0 0 0 0 0

(1) Injury (2) Skin disorder (3) Respiratory condition (4) Poisoning (5) Hearing loss (6) All other illnesses

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Add a Form Page

Be sure to transfer these totals to the Summary page (Form 300A) before you post it.

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OSHA's Form 300A (Rev. 04/2004)

Summary of Work-Related Injuries and Illnesses

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Year 20 19

U.S. Department of Labor
Occupational Safety and Health Administration

Form approved OMB no. 1218-0176

All establishments covered by Part 1904 must complete this Summary page, even if no work-related injuries or illnesses occurred during the year. Remember to review the Log to verify that the entries are complete and accurate before completing this summary.

Using the Log, count the individual entries you made for each category. Then write the totals below, making sure you've added the entries from every page of the Log. If you had no cases, write "0."

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Number of Cases

Total number of deaths	Total number of cases with days away from work	Total number of cases with job transfer or restriction	Total number of other recordable cases
1	1	1	8
(G)	(H)	(I)	(J)

Number of Days

Total number of days away from work	Total number of days of job transfer or restriction
130	10
(K)	(L)

Injury and Illness Types

Total number of . . .	(M)		
(1) Injuries	11	(4) Poisonings	0
(2) Skin disorders	0	(5) Hearing loss	0
(3) Respiratory conditions	0	(6) All other illnesses	0

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Street: 864 Hoff Road

City: O'Fallon State: MO Zip: 63366

Industry description (e.g., *Manufacture of motor truck trailers*)
Sewer Utility Repair and Underground Construction (Tunneling)

North American Industrial Classification (NAICS), if known (e.g., 336212)
2 3 7 1 1 0

Employment information (*If you don't have these figures, see the Worksheet on the next page to estimate.*)

Annual average number of employees: 450

Total hours worked by all employees last year: 1084999

Sign here

Knowingly falsifying this document may result in a fine.

I certify that I have examined this document and that to the best of my knowledge the entries are true, accurate, and complete.

Company executive: [signature] Title: Pres.

Phone: 636 385 1000 Date: 01 / 27 / 20

Save Input

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OSHA's Form 300 (Rev. 04/2004)

Log of Work-Related Injuries and Illnesses

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Year 20 19

U.S. Department of Labor
Occupational Safety and Health Administration

Form approved OMB no. 1218-0176

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- *Work-related injuries and illnesses that meet any of the specific recording criteria listed in 29 CFR Part 1904.8 through 1904.12.*

Reminders:
- *Complete an Injury and Illness Incident Report (OSHA Form 301) or equivalent form for each injury or illness recorded on this form. If you're not sure whether a case is recordable, call your local OSHA office for help.*
- *Feel free to use two lines for a single case if you need to.*
- *Complete the 5 steps for each case.*

Establishment name: SAK Construction, LLC

City: O'Fallon State: MO

Step 1. Identify the person			Step 2. Describe the case			Step 3. Classify the case (SELECT ONLY ONE circle based on the most serious outcome:)				Step 4. Enter the number of days the injured or ill worker was:		Step 5. Select one column:						
								Remained at Work						(M) Illness					
(A) Case no.	(B) Employee's name	(C) Job title (e.g., Welder)	(D) Date of injury or onset of illness (e.g., 2/10)	(E) Where the event occurred (e.g., Loading dock north end)	(F) Describe injury or illness, parts of body affected, and object/substance that directly injured or made person ill (e.g., Second degree burns on right forearm from acetylene torch)	Death (G)	Days away from work (H)	Job transfer or restriction (I)	Other recordable cases (J)	Away from work (K)	On job transfer or restriction (L)	Injury (1)	Skin disorder (2)	Respiratory condition (3)	Poisoning (4)	Hearing loss (5)	All other illnesses (6)
Reset 1			1 / 16	CIPP Install Site	Laceration to right ring finger while removing 6" boiler hose from boiler truck connection.	○	○	○	●	____ days	____ days	●	○	○	○	○	○
Reset 2			2 / 4	CIPP Install Site	Laceration to upper lip while disconnecting a 6" boiler hose from a 6" pump.	○	○	○	●	____ days	____ days	●	○	○	○	○	○
Reset 3			6 / 7	CIPP Install Site	Laceration to left upper arm by a running grinder.	○	○	●	○	____ days	10 days	●	○	○	○	○	○
Reset 4			6 / 27	CIPP Install Site	Broke left arm when he fell to the ground.	○	●	○	○	130 days	____ days	●	○	○	○	○	○
Reset 5			7 / 1	North Yard	Laceration to right hand when hand was placed on metal generator louvers.	○	○	○	●	____ days	____ days	●	○	○	○	○	○
Reset 6			7 / 8	Shop	Laceration of right forearm on banding on 12" (shooter) equipment.	○	○	○	●	____ days	____ days	●	○	○	○	○	○
Reset 7			8 / 26	Tunnel Job Site	Crushed right middle finger between drill and bolt.	○	○	○	●	____ days	____ days	●	○	○	○	○	○
Reset 8			9 / 3	CIPP Install Site	Crushed tip of 5th digit on right hand by manhole lid ring.	○	○	○	●	____ days	____ days	●	○	○	○	○	○
Reset 9			9 / 17	Tunnel Job Site	Caught between the crane counterweight and track.	●	○	○	○	____ days	____ days	●	○	○	○	○	○
Reset 10			9 / 25	CIPP Install Site	Left foot laceration sustained when material on material winch fell striking foot.	○	○	○	●	____ days	____ days	●	○	○	○	○	○
Page totals ▶						1	1	1	7	130	10	10	0	0	0	0	0

Be sure to transfer these totals to the Summary page (Form 300A) before you post it.

Delete a Form Page

Page 1 of 2

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OSHA's Form 300 (Rev. 04/2004)

Log of Work-Related Injuries and Illnesses

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Year 20 19

U.S. Department of Labor
Occupational Safety and Health Administration

Form approved OMB no 1218-0176

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- Significant work-related injuries and illnesses that are diagnosed by a physician or licensed health care professional.
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- Feel free to use two lines for a single case if you need to.
- Complete the 5 steps for each case.

Establishment name: SAK Construction

City: O'Fallon State: MO

Step 1. Identify the person			Step 2. Describe the case			Step 3. Classify the case (SELECT ONLY ONE circle based on the most serious outcome:)				Step 4. Enter the number of days the injured or ill worker was:		Step 5. Select one column:					
								Remained at Work						Illness			
(A) Case no.	(B) Employee's name	(C) Job title (e.g., Welder)	(D) Date of injury or onset of illness (e.g., 2/10)	(E) Where the event occurred (e.g., Loading dock north end)	(F) Describe injury or illness, parts of body affected, and object/substance that directly injured or made person ill (e.g., Second degree burns on right forearm from acetylene torch)	Death (G)	Days away from work (H)	Job transfer or restriction (I)	Other recordable cases (J)	Away from work (K)	On job transfer or restriction (L)	(M) Injury (1)	Skin disorder (2)	Respiratory condition (3)	Poisoning (4)	Hearing loss (5)	All other illnesses (6)
11			9 / 27 month / day	Tunnel Job Site	Forehead laceration when hardhat struck by falling rock and face pushed into pile of rock bolts	○	○	○	●	____ days	____ days	●	○	○	○	○	○
			____ / ____ month / day			○	○	○	○	____ days	____ days	○	○	○	○	○	○
			____ / ____ month / day			○	○	○	○	____ days	____ days	○	○	○	○	○	○
			____ / ____ month / day			○	○	○	○	____ days	____ days	○	○	○	○	○	○
			____ / ____ month / day			○	○	○	○	____ days	____ days	○	○	○	○	○	○
			____ / ____ month / day			○	○	○	○	____ days	____ days	○	○	○	○	○	○
			____ / ____ month / day			○	○	○	○	____ days	____ days	○	○	○	○	○	○
			____ / ____ month / day			○	○	○	○	____ days	____ days	○	○	○	○	○	○
			____ / ____ month / day			○	○	○	○	____ days	____ days	○	○	○	○	○	○
			____ / ____ month / day			○	○	○	○	____ days	____ days	○	○	○	○	○	○
Page totals ▶						0	0	0	1			1	0	0	0	0	0

Be sure to transfer these totals to the Summary page (Form 300A) before you post it.

Add a Form Page | Delete a Form Page

Page 2 of 2

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Section C.

Workforce Development

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C. Workforce Development

1. Documentation as to bidder's pay rates, health insurance, pension or other retirement benefits, paid leave, or other fringe benefits to its employees.
   SAK and its subcontractors will pay the appropriate current prevailing wage rates for City of Ann Arbor ashtenaw County, M . SAK provides benefits to all its employees either directly or through collective bargaining agreements. Please see attachment that summaries the rates SAK pays under our union agreement.

2. Documentation that the bidder participates in a Registered Apprenticeship Program that is registered with the United States Department of Labor Office of Apprenticeship or by a State Apprenticeship Agency recognized by the USDOL Office of Apprenticeship. USDOL apprenticeship agreements shall be disclosed to the City in the solicitation response.
   SAK Construction participates in the astern Missouri Construction Craft Laborers Apprenticeship Program. egistration umber MO-00 - 000 e employ apprentice laborers under the terms of the collective bargaining agreement. Please see attached Construction Craft Laborers Apprenticeship Program verification letter.

3. Bidders shall disclose the number of non-craft employees who will work on the project on a 1099 basis, and the bidders shall be awarded points based on their relative reliance on 1099 work arrangements with more points assigned to companies with fewer 1099 arrangements. Bidders will acknowledge that the City may ask them to produce payroll records at points during the project to verify compliance with this section.
   SAK Construction does not utili e 10 employees.

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MITA ROAD- ZONE 1 (Wayne, Monroe, Washtenaw, Oakland, Macomb & Genesee Counties)
Wage Rates effective the first full pay period on or after 6/1/23:

Class 1: Asphalt Shoveler or loader, asphalt plant misc., asphalt raker tender, burlap man, carpenters' tender, yard man, guard rail builder's tender, Earth Retention barrier and wall and M.S.E. Wall installers Tender, Highway and median barrier installers tender (including sound, retaining and crash barriers), fence erector's tender, dumper (wagon, Truck, etc.), joint filling labor, misc., unskilled labor, sprinkler labor, form setting labor, form stripper, pavement reinforcing, handling and placing (e.g., wire mesh, steel mats, dowel bars, etc.), mason's or bricklayer's tender on manholes, manhole builder, headwalls, etc., waterproofing, (other than buildings) seal coating and slurry mix, shoring, underpinning, bridge painting, etc., (spray, roller and brush), sandblasting, pressure grouting, bridge pin and hanger removal, Material Recycling Laborer, Horizontal Paver Laborer (brick, concrete, clay, stone and asphalt), Ground Stabilization and Modification Laborer, grouting, waterblasting, Top Man, and railroad track and trestle laborer, sign installer and remote control operated equipment.

Class 2: Mixer operator, (less than 5 sacks), air or electric tool operator (jack hammer, etc.), spreader, boxman (asphalt, stone, gravel, etc.), concrete paddler, power chain saw operator, paving batch truck dumper, tunnel mucker (highway work only), concrete saw operator (under 40 hp), dry pack machine, and roto-mill grounds person.

Class 3: Tunnel miner (highway work only), finishers tenders, guard rail builder, highway and median barrier installer, Earth Retention Barrier and wall and M.S.E. wall installer (including sound, retaining and crash barriers), fence erector, bottom man, powder man, wagon drill, and air track operator, curb and side rail setter's tender, diamond and core drills (per agreement between the Laborers and Operating Engineers International Union dated February 3, 1954), grade checker and certified welder.

Class 4: Asphalt raker.

Class 5: Pipe Layers, oxy-gun.

Class 6: Line-Form setter for curb or pavement, and asphalt screed checker/screw man on asphalt paving machines.

Class 7: Concrete Specialist - The Classification of Concrete Specialist shall include the finishing and troweling, of cast in place or precast concrete by any and all methods. Laborers who have the necessary skills to be classified as a Concrete Specialist and perform the work shall be paid the following wage and fringe benefit scale.

	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7
*Base	$27.87	$28.00	$28.18	$28.26	$28.47	$28.77	$29.84
*Vacation	4.65	4.65	4.65	4.65	4.65	4.65	4.65
Pension	7.00	7.00	7.00	7.00	7.00	7.00	7.00
Health Care	6.00	6.00	6.00	6.00	6.00	6.00	6.00
Training	.45	.45	.45	.45	.45	.45	.45
Annuity	1.00	1.00	1.00	1.00	1.00	1.00	1.00
LECET	.35	.35	.35	.35	.35	.35	.35
	$47.32	$47.45	$47.63	$47.71	$47.92	$48.22	$49.29
Ind.Prom.	.12	.12	.12	.12	.12	.12	.12
TOTAL	$47.44	$47.57	$47.75	$47.83	$48.04	$48.34	$49.41

*Taxable income subject to Federal Withholding & FICA.

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All registered Apprentices will work in accordance with wage and training requirements.

Rate	***Work Hours***	***Training Hours – Cumulative***
75%	0 – 1,000	75 Plus
80%	1,001 – 2,000	75 Plus
85%	2,001 – 3,000	75 Plus
95%	3,001 – 4,000	75 Plus

All percentages are calculated on the Base Rate. All fringe benefits are paid at 100%.
This language must comply with all MDOT specifications.

DocuSign Envelope ID: E6258E13-1F01-485C-91C3-A674AA7D7B6B

MITA ROAD - ZONE 2 (Hillsdale, Branch, St. Joseph, Lenawee, St. Clair, Cass, Berrien, Van Buren, Kalamazoo, Calhoun, Jackson, Livingston, Ingham, Eaton, Barry, Allegan, Lapeer, Shiawassee, Clinton, Muskegon, Gratiot, Saginaw, Tuscola, Sanilac, Huron, Bay and Midland Counties)

Wage Rates effective the first full pay period on or after 6/1/23:

Class 1: Asphalt Shoveler or loader, asphalt plant misc., asphalt raker tender, burlap man, carpenters' tender, yard man, guard rail builder's tender, Earth Retention barrier and wall and M.S.E. Wall installers Tender, Highway and median barrier installers tender (including sound, retaining and crash barriers), fence erector's tender, dumper (wagon, Truck, etc.), joint filling labor, misc., unskilled labor, sprinkler labor, form setting labor, form stripper, pavement reinforcing, handling and placing (e.g., wire mesh, steel mats, dowel bars, etc.), mason's or bricklayer's tender on manholes, manhole builder, headwalls, etc., waterproofing, (other than buildings) seal coating and slurry mix, shoring, underpinning, bridge painting, etc., (spray, roller and brush), sandblasting, pressure grouting, bridge pin and hanger removal, Material Recycling Laborer, Horizontal Paver Laborer (brick, concrete, clay, stone and asphalt), Ground Stabilization and Modification Laborer, grouting, waterblasting, Top Man, and railroad track and trestle laborer, sign installer and remote control operated equipment.

Class 2: Mixer operator, (less than 5 sacks), air or electric tool operator (jack hammer, etc.), spreader, boxman (asphalt, stone, gravel, etc.), concrete paddler, power chain saw operator, paving batch truck dumper, tunnel mucker (highway work only), concrete saw operator (under 40 hp), dry pack machine, and roto-mill grounds person.

Class 3: Tunnel miner (highway work only), finishers tenders, guard rail builder, highway and median barrier installer, Earth Retention Barrier and wall and M.S.E. wall installer (including sound, retaining and crash barriers), fence erector, bottom man, powder man, wagon drill, and air track operator, curb and side rail setter's tender, diamond and core drills (per agreement between the Laborers and Operating Engineers International Union dated February 3, 1954), grade checker and certified welder.

Class 4: Asphalt raker.

Class 5: Pipe Layers, oxy-gun.

Class 6: Line-Form setter for curb or pavement, and asphalt screed checker/screw man on asphalt paving machines.

Class 7: Concrete Specialist - The Classification of Concrete Specialist shall include the finishing and troweling, of cast in place or precast concrete by any and all methods. Laborers who have the necessary skills to be classified as a Concrete Specialist and perform the work shall be paid the following wage and fringe benefit scale.

	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7
*Base	$25.97	$26.17	$26.41	$26.76	$26.63	$26.97	$29.54
*Vacation	4.40	4.40	4.40	4.40	4.40	4.40	4.40
Pension	7.00	7.00	7.00	7.00	7.00	7.00	7.00
Health Care	6.00	6.00	6.00	6.00	6.00	6.00	6.00
Training	.45	.45	.45	.45	.45	.45	.45
Annuity	1.00	1.00	1.00	1.00	1.00	1.00	1.00
LECET	.45	.45	.45	.45	.45	.45	.45
	$45.27	$45.47	$45.71	$46.06	$45.93	$46.27	$48.84
Ind.Prom.	.12	.12	.12	.12	.12	.12	.12
TOTAL	$45.39	$45.59	$45.83	$46.18	$46.05	$46.39	$48.96

*Taxable income subject to Federal Withholding & FICA.

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All registered Apprentices will work in accordance with wage and training requirements.

Rate	***Work Hours***	***Training Hours – Cumulative***
75%	0 – 1,000	75 Plus
80%	1,001 – 2,000	75 Plus
85%	2,001 – 3,000	75 Plus
95%	3,001 – 4,000	75 Plus

All percentages are calculated on the Base Rate. All fringe benefits are paid at 100%.
This language must comply with all MDOT specifications.

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MITA - ZONE 3 (Alcona, Alpena, Antrim, Arenac, Benzie, Charlevoix, Cheboygan, Clare, Crawford, Emmet, Gladwin, Grand Traverse, Ionia, Iosco, Isabella, Kalkaska, Kent, Lake, Leelanau, Manistee, Mason, Mecosta, Missaukee, Montcalm, Montmorency, Newaygo, Oceana, Ogemaw, Osceola, Oscoda, Ostego, Ottawa, Presque Isle, Roscommon, Wexford Counties)

Wage Rates effective the first full pay period on or after 6/1/23:

Class 1: Asphalt Shoveler or loader, asphalt plant misc., asphalt raker tender, burlap man, carpenters' tender, yard man, guard rail builder's tender, Earth Retention barrier and wall and M.S.E. Wall installers Tender, Highway and median barrier installers tender (including sound, retaining and crash barriers), fence erector's tender, dumper (wagon, Truck, etc.), joint filling labor, misc., unskilled labor, sprinkler labor, form setting labor, form stripper, pavement reinforcing, handling and placing (e.g., wire mesh, steel mats, dowel bars, etc.), mason's or bricklayer's tender on manholes, manhole builder, headwalls, etc., waterproofing, (other than buildings) seal coating and slurry mix, shoring, underpinning, bridge painting, etc., (spray, roller and brush), sandblasting, pressure grouting, bridge pin and hanger removal, Material Recycling Laborer, Horizontal Paver Laborer (brick, concrete, clay, stone and asphalt), Ground Stabilization and Modification Laborer, grouting, waterblasting, Top Man, and railroad track and trestle laborer, sign installer and remote control operated equipment.

Class 2: Mixer operator, (less than 5 sacks), air or electric tool operator (jack hammer, etc.), spreader, boxman (asphalt, stone, gravel, etc.), concrete paddler, power chain saw operator, paving batch truck dumper, tunnel mucker (highway work only), concrete saw operator (under 40 hp), dry pack machine, and roto-mill grounds person.

Class 3: Tunnel miner (highway work only), finishers tenders, guard rail builder, highway and median barrier installer, Earth Retention Barrier and wall and M.S.E. wall installer (including sound, retaining and crash barriers), fence erector, bottom man, powder man, wagon drill, and air track operator, curb and side rail setter's tender, diamond and core drills (per agreement between the Laborers and Operating Engineers International Union dated February 3, 1954), grade checker and certified welder.

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Class 6: Line-Form setter for curb or pavement, and asphalt screed checker/screw man on asphalt paving machines.

Class 7: Concrete Specialist - The Classification of Concrete Specialist shall include the finishing and troweling, of cast in place or precast concrete by any and all methods. Laborers who have the necessary skills to be classified as a Concrete Specialist and perform the work shall be paid the following wage and fringe benefit scale.

	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7
*Base	$25.12	$25.33	$25.62	$26.06	$25.68	$26.11	$29.44
*Vacation	4.55	4.55	4.55	4.55	4.55	4.55	4.55
Pension	7.00	7.00	7.00	7.00	7.00	7.00	7.00
Health Care	6.00	6.00	6.00	6.00	6.00	6.00	6.00
Training	.45	.45	.45	.45	.45	.45	.45
Annuity	1.00	1.00	1.00	1.00	1.00	1.00	1.00
LECET	.40	.40	.40	.40	.40	.40	.40
	$44.52	$44.73	$45.02	$45.46	$45.08	$45.51	$48.84
Ind.Prom.	.12	.12	.12	.12	.12	.12	.12
TOTAL	$44.64	$44.85	$45.14	$45.58	$45.20	$45.63	$48.96

*Taxable income subject to Federal Withholding & FICA.

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All registered Apprentices will work in accordance with wage and training requirements.

Rate	***Work Hours***	***Training Hours – Cumulative***
75%	0 – 1,000	75 Plus
80%	1,001 – 2,000	75 Plus
85%	2,001 – 3,000	75 Plus
95%	3,001 – 4,000	75 Plus

All percentages are calculated on the Base Rate. All fringe benefits are paid at 100%.
This language must comply with all MDOT specifications.

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MITA - ZONE 4 (All Counties in the Upper Peninsula of the State of Michigan)

Wage Rates effective the first full pay period on or after 6/1/23:

Class 1: Asphalt Shoveler or loader, asphalt plant misc., asphalt raker tender, burlap man, carpenters' tender, yard man, guard rail builder's tender, Earth Retention barrier and wall and M.S.E. Wall installers Tender, Highway and median barrier installers tender (including sound, retaining and crash barriers), fence erector's tender, dumper (wagon, Truck, etc.), joint filling labor, misc., unskilled labor, sprinkler labor, form setting labor, form stripper, pavement reinforcing, handling and placing (e.g., wire mesh, steel mats, dowel bars, etc.), mason's or bricklayer's tender on manholes, manhole builder, headwalls, etc., waterproofing, (other than buildings) seal coating and slurry mix, shoring, underpinning, bridge painting, etc., (spray, roller and brush), sandblasting, pressure grouting, bridge pin and hanger removal, Material Recycling Laborer, Horizontal Paver Laborer (brick, concrete, clay, stone and asphalt), Ground Stabilization and Modification Laborer, grouting, waterblasting, Top Man, and railroad track and trestle laborer, sign installer and remote control operated equipment.

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Class 7: Concrete Specialist - The Classification of Concrete Specialist shall include the finishing and troweling, of cast in place or precast concrete by any and all methods. Laborers who have the necessary skills to be classified as a Concrete Specialist and perform the work shall be paid the following wage and fringe benefit scale.

	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7
*Base	$26.22	$26.43	$26.72	$27.16	$26.78	$27.21	$30.54
*Vacation	4.30	4.30	4.30	4.30	4.30	4.30	4.30
Pension	7.00	7.00	7.00	7.00	7.00	7.00	7.00
Health Care	6.00	6.00	6.00	6.00	6.00	6.00	6.00
Training	.45	.45	.45	.45	.45	.45	.45
LECET	.55	.55	.55	.55	.55	.55	.55
	$44.52	$44.73	$45.02	$45.46	$45.08	$45.51	$48.84
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TOTAL	$44.64	$44.85	$45.14	$45.58	$45.20	$45.63	$48.96

*Taxable income subject to Federal Withholding & FICA.

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All registered Apprentices will work in accordance with wage and training requirements.

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80%	1,001 – 2,000	75 Plus
85%	2,001 – 3,000	75 Plus
95%	3,001 – 4,000	75 Plus

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Construction Craft Laborers' Apprenticeship Program

Registration Number MO-002-950002
35 Opportunity Road
High Hill, Missouri 63350
(636) 585-1500 ext. 1 fax (636) 585-2604
e-mail: app@lctcmo.org

Committee Members/Alternates

Labor
Patrick Pryor - Chairman
Bradley Turner
Sam Simmons
Brandon Flinn

Management
Frank Marchesi, Sr.-Secretary
Michael W. Luth
Rod Fain
Shawn Jordan

Apprenticeship Advisor
Joseph J. Weinhardt

Sponsoring Organizations

Eastern Missouri Laborers' District Council

SITE Improvement Association

Associated General Contractors of Missouri

CONSULTANTS

Raymond Hefner
Plumbing Industry Council

Brian Smith.
Mason Contractors' Association

Jerald A. Pelker
Director of Training – Retired

August 31, 2023

To whom it may concern,

This letter is to verify that SAK Construction, LLC participates in the Eastern Missouri Construction Craft Laborers' Apprenticeship Program (Registration Number MO -002-950002) and has the ability to employ apprentice laborers under the terms of the collective bargining agreement for the Missouri & Kansas Laborers' District Council.

If you have any question or need additional information please contact me at (636) 585 – 1500.

Joseph Weinhardt

Joseph J. Weinhardt
Apprenticeship Advisor

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Section D.

Social Equity and Sustainability

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D. Social Equity and Sustainability

1. A statement from the bidder as to what percentage of its workforce resides in the City of Ann Arbor and in Washtenaw County, Michigan. The City will consider in evaluating which bids best serve its interests, the extent to which responsible and qualified bidders employ individuals in either the city of the county. City of Ann Arbor jurisdiction is prioritized for evaluation purposes for this solicitation.
   SAK Construction has one employee that resides in ashtenaw County. Currently, we do not have any employees residing in Ann Arbor.

2. Evidence of Equal Employment Opportunity Programs for minorities, women, veterans, returning citizens, and small businesses.
   Please see attachment labeled " qual mployment Opportunity Affirmative Action Policy."

3. Evidence that the bidder is an equal opportunity employer and does not discriminate on the basis of race, sex, pregnancy, age, religion, national origin, marital status, sexual orientation, gender identity or expression, height, weight, or disability.
   Please see attachment labeled " qual mployment Opportunity Affirmative Action Policy."

4. The bidder's proposed use of sustainable products, technologies, or practices for the project, which reduce the impact on human health and the environment, including raw materials acquisition, production, manufacturing, packaging, distribution, reuse, operation, maintenance, and waste management.
   SAK Construction, LLC and Pipenology, LLC are committed to wor ing on sustainability with its products, technologies, and practices. Our clear ob ective is to continuously improve our sustainable efforts and any global impacts. Currently, we actively recycle pac ing material paper, plastic, cardboard, etc. , have replaced propane driven for truc s with electric transport equipment, have yearly continuous improvement scrap reduction pro ects, use L D lighting where possible verses incandescent or florescent lighting, and minimi e energy usage for specific site equipment including air compressors, heating cooling equipment, and process equipment.

5. The bidder's environmental record, including findings of violations and penalties imposed by government agencies.
   SAK was issued an Abatement Order on Consent AOC by the Missouri Department of atural esources Department o. 0 - PC -1 . Fined ,0 .
   SAK was installing a C PP liner. During the curing process, the condensation from the liner lea ed into a nearby cree . This condensation had remnants of the resin system in the C PP liner that illed aquatic life in the nearby stream pool. SAK cleared up the impacted area immediately to eliminate the threat to water quality.

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SAK™

Pipeline Infrastructure. Solved.™

636.385.1000 tel
636.385.1100 fax
864 Hoff Road
O'Fallon, MO 63366
www.sakcon.com

Equal Employment Opportunity & Affirmative Action Policy Statement
41 CFR 60-20.3, 60-50.2

It is the policy of SAK Construction to not discriminate against any employee or applicant for employment because of age, race, religion, color, disability, gender, physical condition, developmental disability, sexual orientation, national origin, genetic information & testing, family & medical leave, gender identity/expression or veteran status and to take affirmative action to employ and to advance in employment all persons regardless of their status, and to base all employment decisions only on valid job requirements.

SAK Construction is committed to applying equal employment opportunity (EEO) policies in order to ensure that its policy of non-discrimination and affirmative action is accomplished. Specifically, SAK Construction does not discriminate on the basis of veteran status or disability status, and will not make any distinctions based on such. Employment decisions will be based on valid job requirements only.

This policy applies to all employment actions, including but not limited to recruitment, hiring, promotion, transfer, demotion, layoff, recall, termination, rates of pay or other forms of compensation and selection for training, including apprenticeship, at all levels of employment. Employees of and applicants to SAK Construction will not be subject to harassment, intimidation, threats, coercion, or discrimination because they have engaged or may engage in filing a complaint, assisting in a review, investigation, or hearing or have otherwise sought to obtain their legal rights related to any federal, state, or local law regarding EEO for qualified individuals with disabilities, or qualified protected veterans.

SAK Construction maintains that it will abide by any collective bargaining agreement by adhering to written conditions of employment set forth therein. Such agreements shall not be inconsistent with the guidelines of this Affirmative Action Plan.

We prohibit Retaliation against individuals who bring forth any complaint, orally or in writing, to the employer or the government, or against any individuals who assist or participate in the investigation of any complaint or otherwise oppose discrimination.

SAK Construction and its President, Jerry Shaw are committed to the principles of Affirmative Action and Equal Employment Opportunity.

This Affirmative Action Program is available for inspection by any employee or applicant for employment upon request, during normal business hours, in the O'Fallon, MO office. Interested persons should contact the appointed EEO Officer, **Angie Hirtz at (636) 385-1020** for assistance.

Jerry Shaw, President

10/1/22
Date

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EXECUTIVE ORDER 11246 AFFIRMATIVE ACTION PLAN (AAP)

for

SAK CONSTRUCTION LLC
864 Hoff Rd.
O'FALLON, MO 63366

October 1, 2021 - September 30, 2022

PART I: AAP FOR MINORITIES AND WOMEN

PART II: AAP FOR PROTECTED VETERANS AND INDIVIDUALS WITH DISABILITIES

AA/EEO Contact: Angie Hirtz
Human Resources Manager
SAK CONSTRUCTION LLC
864 Hoff Rd.
O'FALLON, MO 63366

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CONFIDENTIAL TRADE SECRET MATERIALS

(Not for distribution except on a need-to-know basis within SAK CONSTRUCTION LLC).

This AAP contains confidential information which is subject to the provisions of 18 U.S.C. 1905. Chrysler Corp. v. Brown, 441 U.S. 281, 19 FEP 475 (1979). Copies of this AAP and all related appendices, documents, and support data are made available on loan to the U.S. Government upon the request of said Government on the condition that the Government hold them totally confidential and not release copies to any persons whatsoever. This AAP and all its supporting documents contain much confidential information which may reveal, directly or indirectly, SAK CONSTRUCTION LLC's plans for business or geographical expansion or contraction. SAK CONSTRUCTION LLC considers this AAP to be exempt from disclosure, reproduction, and distribution under the Freedom of Information Act upon the grounds, among others, that such material constitutes (1) personnel files, the disclosure of which would constitute a clearly unwarranted invasion of personal privacy, which are exempt from disclosure under 5 U.S.C. 552(b)(6); (2) confidential, commercial, or financial information, which is exempt from disclosure under 5 U.S.C. 552(b)(4); (3) investigatory records compiled for law enforcement purposes, the production of which would constitute an unwarranted invasion of personal privacy, which are exempt from disclosure under 5 U.S.C. 552(b)(7)(C); and (4) matters specifically exempted from disclosure by statute, which are exempt from disclosure under 5 U.S.C. 552(b)(3). Notice is hereby given of a request pursuant to Title 41 Code of Federal Regulations, Part 60-40.3 that portions of this AAP be kept confidential.

SAK CONSTRUCTION LLC wishes to make it clear that it does not consent to the release of any information whatsoever contained in this AAP under the Freedom of Information Act or otherwise. If the U.S. Government, or any agency or subdivision thereof, is considering breaching the conditions under which this AAP was loaned to such Government, or is considering a request for release of this AAP under the Freedom of Information Act, a request is hereby made that the Government immediately notify the President of SAK CONSTRUCTION LLC of any and all Freedom of Information Act requests received by the Government or any other contemplated release of this AAP by the Government which relates to information obtained by the Government from the Company. We further request that everyone who has any contact with this AAP or its supporting data treat such information as totally confidential and that such information not be released to any person whatsoever. Retention or disclosure of information relating to identifiable individuals may also violate the Privacy Act of 1974.

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SAK CONSTRUCTION LLC AAP

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INTRODUCTION TO PARTS I AND II

BACKGROUND

SAK CONSTRUCTION LLC is a private*y*-owned company. The Company was founded in 2006 in the State of Missouri

SAK CONSTRUCTION LLC is a federal government supply and service contractor subject to the affirmative action requirements of Executive Order 11246, the Rehabilitation Act of 1973 as amended, and the Vietnam Era Veterans' Readjustment Assistance Act of 1974, Section 4212. Because SAK CONSTRUCTION LLC has $50,000 or more in annual contracts with the federal government and employs 50 or more employees, we are required to prepare annual written Affirmative Action Plans (AAP's) for minorities and women, for protected veterans, and for individuals with disabilities for our organization. Failure to comply with these laws and their implementing regulations, which are enforced by the Office of Federal Contract Compliance Programs (OFCCP), can result in debarment of the Company from future contracts and subcontracts.

Affirmative action is a term that encompasses any measure adopted by an employer to correct or to compensate for past or present discrimination or to prevent discrimination from recurring in the future. Affirmative action goes beyond the simple termination of a discriminatory practice.

As stipulated in federal regulations, a prerequisite to the development of a satisfactory affirmative action plan is the evaluation of opportunities for protected group members, as well as an identification and analysis of problem areas inherent in their employment. Also, where a statistical analysis reveals a numeric disparity between incumbency and availability (and/or hiring rates for veterans), an adequate AAP details specific affirmative action steps to guarantee equal employment opportunity. These steps are keyed to the problems and needs of protected group members. For minorities and women, such steps include the development of hiring and promotion goals to rectify the disparity between incumbency and availability. For protected veterans and individuals with disabilities, such steps will include a thorough review of the company’s outreach efforts to determine the effectiveness of such efforts in closing the hiring and/or utilization gaps. It is toward this end that the following AAP of SAK CONSTRUCTION LLC was developed.

APPLICABLE AFFIRMATIVE ACTION LAWS AND REGULATIONS

SAK CONSTRUCTION LLC's AAP for minorities and women (Part I) has been prepared according to Executive Order No. 11246, as amended, and Title 41, Code of Federal Regulations, Part 60-1 (Equal Employment Opportunity Duties of Government Contractors), Part 60-2 (Affirmative Action Programs of Government Non-Construction Contractors; also known as "Revised Order No. 4"), and Part 60-20 (Sex Discrimination Guidelines for Government Contractors).

SAK CONSTRUCTION LLC has developed separately an affirmative action plan for protected veterans and individuals with disabilities (Part II) prepared in accordance with the Rehabilitation

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Act of 1973, Section 503, as amended and Title 41, Code of Federal Regulations, Part 60-741(Affirmative Action Program for Individuals with Disabilities), the Vietnam Era Veterans' Readjustment Assistance Act of 1974, Section 4212, as amended, and Title 41 Code of Federal Regulations, Part 60-300 (Affirmative Action Program for protected veterans).

Under Section 503, a business with a federal contract of more than $15,000 is required to treat qualified individuals with disabilities without discrimination on the basis of their physical or mental disability in all employment practices, and to take affirmative action to employ and advance in employment individuals with disabilities. If the company has at least 50 employees and a single contract of $50,000 or more, then it must also develop a Section 503 AAP, as described in 41 CFR 60-741, Subpart C. Section 503 applies to businesses with federal construction contracts, but not to businesses with federally assisted construction contracts.

Under VEVRAA, a business with a federal contract of $150,000 or more is required to treat qualified individuals without discrimination based on their status as a protected veteran in all employment practices, and to take affirmative action to employ and advance in employment protected veterans. If the company has at least 50 employees and a single contract of $150,000 or more, then it must also develop a VEVRAA AAP, as described in 41 CFR 60-300, Subpart C. VEVRAA applies to businesses with federal construction contracts, but not to businesses with federally assisted construction contracts.

COVERED GROUPS UNDER AFFIRMATIVE ACTION LAWS AND REGULATIONS

Coverage under affirmative action laws and regulations applies to:

Women and minorities who are recognized as belonging to or identifying with the following race or ethnic groups: Blacks/African Americans, Hispanics/Latinos, Asians/Pacific Islanders, and American Indians/Alaskan Natives.

Any veteran who is entitled to compensation (or who but for the receipt of military retired pay would be entitled to compensation) under laws administered by the Secretary of Veterans Affairs, or who was discharged or released from active duty because of a service-connected disability.

Recently separated veterans: any veteran currently within three-years of discharge or release from active duty.

Veterans who served on active duty in the U.S. military during a war or campaign or expedition for which a campaign badge is awarded.

Veterans who, while serving on active duty in the Armed Forces, participated in a United States military operation for which an Armed Forces service medal was awarded pursuant to Executive Order 12985.

An individual with a disability: 1) a person who has a physical or mental impairment that substantially limits one or more of his/her major life activities; (2) has a record of such

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impairment, or (3) is regarded as having such an impairment.

PROGRAM TERMINOLOGY

The terms, "comparison of incumbency to availability," "deficiency," and "problem area," appearing in this AAP, are terms SAK CONSTRUCTION LLC is required by government regulations to use. The criteria used in relation to these terms are those specified by the government. These terms have no independent legal or factual significance whatsoever. Although SAK CONSTRUCTION LLC will use the terms in total good faith in connection with its AAP, such use does not necessarily signify that the Company agrees that these terms are properly applied to any particular factual situation and is not an admission of non-compliance with EEO laws, regulations, and objectives.

The comparison of incumbency to availability contained herein is required by Government regulations to be based on certain statistical comparisons. Geographic areas and sources of statistics used herein for these comparisons were used in compliance with Government regulations, as interpreted by Government representatives. The use of certain geographic areas and sources of statistics does not indicate SAK CONSTRUCTION LLC's agreement that the geographic areas are appropriate in all instances of use or that the sources of statistics are the most relevant. The use of such geographic areas and statistics may have no significance outside the context of this AAP. Such statistics and geographic areas will be used, however, in total good faith with respect to this AAP.

The grouping of job titles into a given job group does not suggest that SAK CONSTRUCTION LLC believes the jobs so grouped are of comparable worth.

Whenever the term "goal" is used, it is expressly intended that it "should not be used to discriminate against any applicant or employee because of race, color, religion, gender, or national origin," as stated in Title 41 Code of Federal Regulations, Part 60-2.16(e)(2).

This AAP is not intended to create any contractual or other rights in any person or entity.

RELIANCE ON EEOC'S GUIDELINES

Although SAK CONSTRUCTION LLC does not believe any violation of Title VII of the Civil Rights Act exists, it has developed this AAP in accordance with and in reliance upon the EEOC's Guidelines on Affirmative Action, Title 29 Code of Federal Regulations, Part 1608.

REPORTING PERIOD

This AAP is designed to cover the following reporting period,

- AAP implementation period: 10/01/2021 – 09/30/2022
- Transaction period: 10/01/2020 – 09/30/2021

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STATEMENT OF PURPOSE FOR PARTS I AND II

This AAP has been designed to bring women and men, members of minority groups, protected veterans, and individuals with disabilities into all levels and segments of SAK CONSTRUCTION LLC's workforce in proportion to their representation in the qualified relevant labor market.

The AAP, therefore, is a detailed, results-oriented set of procedures which, when carried out, results in full compliance with equal employment opportunity requirements through the equal treatment of all people.

The manner in which this is to be accomplished becomes technical and somewhat complicated. There are several reasons for this. First, SAK CONSTRUCTION LLC is subject to and must address a variety of State and Federal laws and guidelines dealing with equal employment opportunity and affirmative action. These guidelines and requirements are in themselves somewhat technical and complex. In addition, relevant court decisions, which are often useful in interpreting, but sometimes conflicting with these requirements and guidelines, must be taken into account when developing and implementing the AAP. Furthermore, in determining SAK CONSTRUCTION LLC's current equal employment opportunity and affirmative action position and its desired future achievements, numbers, percentages, statistics, and numerous calculations and computations must come into play.

The technical, legal, and mathematical aspects of the AAP, however, all have one common purpose—to allow us to properly identify three key concepts:

1. Where we stand now,
2. Where we must go,
3. How best to get there.

These three concepts <u>are</u> the Affirmative Action Plan.

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SAK CONSTRUCTION LLC

PART I: AFFIRMATIVE ACTION PLAN FOR MINORITIES AND WOMEN

FOR

OCTOBER 1, 2021 - SEPTEMBER 30, 2022

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PART I

AAP FOR MINORITIES AND WOMEN

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PART I: AAP FOR MINORITIES AND WOMEN

CHAPTER 1: ORGANIZATIONAL PROFILE
41 C.F.R. § 60-2.11

Workforce Analysis/Lines of Progression

SAK CONSTRUCTION LLC conducted a workforce analysis to identify employees by gender and race/ethnicity in each job title. The data was collected from payroll records dated 10/01/21.

Job titles are listed by organizational unit. Job titles are listed from lowest to highest paid. The list includes all job titles, including departmental supervision, exempt, and nonexempt titles.

For each job title, SAK CONSTRUCTION LLC identified the total number of employees, the number of male and female employees, the total number of minority employees, the male and female minority employees, the total number of employees who are White, Black, Hispanic, Asian, American Indian or Alaskan Native employees, Native Hawaiian or Pacific Islander, and Two or More races, and the male and female employees within each of these race/ethnic groups.

Lines of Progression

Developed in conjunction with the workforce analysis is information on SAK CONSTRUCTION LLC's lines of progression. Lines of progression (career ladders/career paths) identify the job titles through which an employee can move to the top of a line. For each line of progression, applicable departments are identified. These are the departments which employ persons in the job titles in the specified line of progression. Some lines of progression are limited to only one department, while others are found throughout several departments.

The lines of progression provide useful information regarding patterns of vertical and horizontal movement throughout our workforce. These patterns will be evaluated to ascertain whether they provide to our employees the optimum career mobility and opportunities for advancement.

See the ***Workforce Analysis/Lines of Progression*** for the results per organizational unit.

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CHAPTER 2: JOB GROUP ANALYSIS
41 C.F.R. § 60-2.12

Although the workforce analysis was conducted individually for every job title, after it was completed, job titles were grouped for the comparison of incumbency to availability and for setting goals. There were several reasons for grouping jobs.

Many job titles are so similar in content that handling them individually in the AAP is not necessary. Grouping together these very similar titles is appropriate for the comparison of incumbency to availability. For many job titles, the availability data that can be collected is limited, and the same data must be used for several related jobs. Therefore, grouping these related titles together is logical. Also, many job titles have so few incumbents in them that identifying disparities between incumbency and availability by job title is meaningless—as problem areas would be identified in terms of fractions of people. By grouping several similar titles and increasing the number of employees involved, a meaningful comparison can be conducted; any identified problem areas are more likely to be in terms of whole people. Consequently, goals established to correct problem areas are also more likely to be in terms of whole people.

The three reasons for grouping job titles all discuss "similar" or "related" jobs. That is the most critical guideline in creating job groups. Above all, the job titles placed into a job group must be more similar or related to each other than the job titles in other job groups.

Job groups must have enough incumbents to permit meaningful comparisons of incumbency to availability and goal setting. Ideally, if a job group is identified as containing a problem area, it should be large enough that a goal of a least one whole person can be established. No minimum size has been established for this purpose, however, since it is dependent not only on the size of the job group, but also on the size of the availability percentage and the number of minorities or women already employed in the job group.

It may not be possible for a smaller contractor's job groups to meet the guideline of not crossing EEO categories. While there are usually two or more job groups within each EEO-1 or EEO-6 category, for smaller contractors some or all of their job groups may correspond to EEO categories.

SAK CONSTRUCTION LLC did not combine job titles with different content, wages, or opportunities if doing so would have obscured problem areas (e.g., job groups which combine jobs in which minorities or women are concentrated with jobs in which they are underrepresented).

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CHAPTER 3: PLACEMENT OF INCUMBENTS IN JOB GROUPS
41 C.F.R. § 60-2.13

Each job group appears on a Job Group Report with a job group name and number. The report lists each job title in the job group. For each job title, the worksheet provides the following information: EEO reporting category, job title, employee headcounts for each job title, and overall percentages by gender and race/ethnicity as of 10/01/21.

See the ***Job Group Analysis*** for the listing of the job titles and the associated race and gender headcounts per job group.

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CHAPTER 4: COMPARING INCUMBENCY TO AVAILABILITY
41 C.F.R. § 60-2.15

Once final availability estimates were made for each job group, SAK CONSTRUCTION LLC compared the percentage of incumbents in each job group to their corresponding availability. A comparison was made between the percentage employed as of 10/01/21 and that group's final availability.

See the ***Comparison of Incumbency to Availability*** for the results per job group.

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CHAPTER 5: PLACEMENT GOALS
41 C.F.R. § 60-2.16

SAK CONSTRUCTION LLC has established an annual percentage placement goal whenever it found that minority or female representation within a job group was less than would reasonably be expected given their availability. In each case, the goal was set at the availability figure derived for women and/or minorities, as appropriate for that job group. These goals take into account the availability of basically qualified persons in the relevant labor area. They also take into account anticipated employment opportunities with our organization. Goals are not rigid and inflexible quotas which must be met, but are instead targets reasonably attainable by means of applying every good faith effort to make all aspects of the entire AAP work. These goals will be reached primarily through recruiting and advertising to increase the pool of qualified minority and female applicants and through implementation of our action-oriented programs (see Chapter 9). Selections will occur only from among qualified applicants. Goals do not require the hiring of a person when there are no vacancies or the hiring of a person who is less likely to do well on the job ("less qualified") over a person more likely to do well on the job ("better qualified"), under valid selection procedures. Goals do not require that SAK CONSTRUCTION LLC hire a specified number of minorities or women.

A goal is a guidepost against which SAK CONSTRUCTION LLC, a community group, or a compliance agency can measure progress in remedying identified deficiencies in SAK CONSTRUCTION LLC's workforce. By setting realistic goals, SAK CONSTRUCTION LLC should be able to meet the goals, assuming we conduct effective recruitment and advertising efforts to ensure an adequate pool of qualified minority and/or female applicants.

See the ***Placement Goals*** report for each job group and the ***Goals Progress Report*** for progress made since the previous AAP.

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CHAPTER 6: DESIGNATION OF RESPONSIBILITY
41 C.F.R. § 60-2.17(a)

As part of its efforts to ensure equal employment opportunity to all individuals, SAK CONSTRUCTION LLC has designated specific responsibilities to various staff to ensure the AAP focuses on all components of the employment system. To that end, the President, the Chief Financial Officer, the Human Resources Manager, and those employed as supervisors and managers have undertaken the responsibilities described below.

President

The primary responsibility and accountability for implementing the AAP rests with the President. This person is responsible, through the Chief Financial Officer and the Human Resources Manager, for adherence to SAK CONSTRUCTION LLC's policy of equal employment opportunity and affirmative action. This role includes, but is not limited to, the following duties:

1. Designate appropriate personnel with the responsibility for overseeing, administering, implementing, and monitoring SAK CONSTRUCTION LLC's AAP. Ensure that these personnel are identified in writing by name and job title.

2. Ensure that those designated personnel responsible for all AAP components are given the necessary authority and top management support and staffing to successfully implement their assigned responsibilities.

3. Impart the personal direction that ensures total involvement and commitment to equal employment opportunity programs through SAK CONSTRUCTION LLC's AAP.

Chief Financial Officer

The Chief Financial Officer is responsible for overall supervision of the AAP. The Chief Financial Officer ensures, through the Human Resources Manager and department managers and supervisors, that all relevant policies and procedures are adhered to. Successful implementation of this program is a basis for evaluating the Chief Financial Officer's effective work performance. The Chief Financial Officer's responsibilities include, but are not limited to, the following:

1) 1. Presenting all needed recommendations and procedural changes to Senior Management concerning EEO and affirmative action and ensuring that Senior Management is kept informed of the Company's compliance status.

2) Maintaining Company-wide management support and cooperation for the Company's AAP.

3) Collaborating with Senior Management on EEO and AAP issues.

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4) Reviewing results of audit and reporting systems to assess the effectiveness of the Company's AA programs and to direct corrective actions where necessary.

5) Providing guidance to managers and supervisors in taking proper action to prevent employees from being harassed in any way, through one-on-one contact, training, and disciplinary action.

6) Providing guidance and direction to the Human Resources Manager.

Human Resources Manager

The Human Resources Manager is responsible for ensuring that the directives of the President and Chief Financial Officer are implemented. The Human Resources Manager's duties include, but are not limited to, the following:

1) Ensuring that the AAP is updated annually for all establishments.

2) Providing direction to the Company's employees, as necessary, to carry out all actions required to meet the Company's equal employment opportunity and affirmative action commitments.

3) Responsible for the design and effective implementation of the AAP at all establishments.

4) Developing, implementing, and maintaining audit and reporting systems to measure effectiveness of equal employment opportunity programs, including those that will

   a) Indicate need for remedial action,

   b) Determine degree to which goals and objectives have been obtained.

5) Advising management in the modification and development of the Company's policies to ensure the enhancement of equal employment opportunity for all employees and potential employees within existing equal employment opportunity guidelines.

6) Identifying problem areas and establishing procedures, goals and objectives to solve these problems.

7) SAK Construction, LLC conducts periodic audits to ensure that all required posters

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and the equal employment opportunity policies and AAP are displayed properly. SAK Construction, LLC also conducts audits to ensure that the Invitation to Self-Identify (pre and post offer) for protected veterans and individuals with disabilities, the Company's equal employment opportunity, and AAP policies are being utilized appropriately and thoroughly communicated.

8) Ensure that employees are re-surveyed regarding their disability status every five (5) years and send out reminders to employees, at least once during the five (5) year intervals, that they may voluntarily update their disability status at any time.

9) Developing policy statements, affirmative action programs, internal and external communication techniques.

10) Assisting line management in arriving at solutions to problems.

11) Serving as the liaison between SAK Construction, LLC and enforcement agencies.

12) Serving as the liaison between SAK Construction, LLC and organizations and community action groups for protected veterans and individuals with disabilities, in addition to ensuring that representatives are involved in community service programs of local organizations for protected veterans and individuals with disabilities.

13) Keeping management informed of the latest developments in the equal employment opportunity area.

14) Reviewing, reporting on, and updating the AAP annually in accordance with stated policy. Informing employees and applicants of significant changes.

15) Working closely with the CFO and department managers and supervisors in coordinating the effective implementation of all identified affirmative actions.

16) Assisting in review and revision of all policies, procedures, and rules to ensure they are not in violation of federal or state laws and regulations.

17) Responsible for ensuring overall the Company's compliance with the AAP.

<u>Senior HR Manager</u>

1) Assisting line management in arriving at solutions to EEO/AA problems.

2) Providing guidelines in the development, preparation, and implementation of career counseling programs for known protected veterans and employees with disabilities.

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Recruiter

1) Reviewing the qualifications of all employees to ensure equitable opportunity, based on job-related employment practices, is given to all for transfers and promotions.
2) Reviewing all job descriptions and specifications to ensure they are free of discriminatory provisions and artificial barriers. Ensuring that all requirements are job-related, that they are realistic, and that they reflect the actual work requirements of the essential job duties.

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CHAPTER 7: IDENTIFICATION OF PROBLEM AREAS
41 C.F.R. § 60-2.17(b)

Terminology

The phrases "comparison of incumbency to availability," and "problem area" appearing in this chapter are terms SAK CONSTRUCTION LLC is required by government regulations to use. The criteria used in relation to these terms are those specified by the government. These terms have no independent legal or factual significance. Although SAK CONSTRUCTION LLC will use the terms in good faith in connection with its AAP, such use does not necessarily signify the company agrees that these terms are properly applied to any particular factual situation and is not an admission of non-compliance with EEO laws, regulations, and objectives. Whenever the term "goal" is used, it is expressly intended that it "should not be used to discriminate against any applicant or employee because of race, color, religion, gender, or national origin," as stated in Title 41 Code of Federal Regulations, Part 60-2.16(e).

In addition to comparing incumbency to availability within job groups, SAK CONSTRUCTION LLC has conducted studies to identify problem areas in each of its selection procedures (i.e., hires, promotions, and terminations). SAK CONSTRUCTION LLC will continue to monitor and update these studies during each AAP year. In each case where potential problem areas have been identified, affirmative actions, as appropriate, will be taken consistent with any of the action-oriented programs described in Chapter 9 of this AAP.

Goals are established within each of the job groups at no less than the current availability data for the job group.

41 C.F.R. § 60-2.17(b)(1): Workforce by Organizational Unit and Job Group

An analysis of minority and female distribution within each organizational unit was accomplished by a thorough investigation of the ***Workforce Analysis***.

An analysis of minority and female utilization within each job group was accomplished by a thorough investigation of the ***Comparison of Incumbency to Availability*** reports.

41 C.F.R. § 60-2.17(b)(2): Personnel Activity

Applicant flow, hires, promotions, and terminations were analyzed by job group. An analysis of selection disparities in personnel activity between men/women and whites/minorities was accomplished by a thorough examination of transaction data.
See the ***Summary of Personnel Transactions Report*** for each job group.

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41 C.F.R. § 60-2.17(b)(3): Compensation Systems

Compensation analyses were conducted by comparing the salaries for men v. women, and whites v. minorities in each *Job Group.*

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CHAPTER 8: ACTION-ORIENTED PROGRAMS
41 C.F.R. § 60-2.17(c)

SAK CONSTRUCTION LLC tailors our action-oriented programs each year to ensure they are specific to the problem identified.

Action-Oriented Program (AOPs):

The action-oriented programs designed to address the underutilization of women and minorities, the utilization goal set for individuals with disabilities, and the hiring benchmark for the protected veterans are listed below. These action-oriented programs will be carried-out throughout the AAP year. Evaluation of these AOPS will be conducted at least annually. The Chief Financial Officer, with the help of the managers, will be responsible in ensuring that the following are implemented.

Recruitment:

1. SAK CONSTRUCTION LLC will continue to identify, build relationships and place advertisements for job opportunities through sources and community organizations for minority, females, individuals with disabilities, and veterans.

2. Due to the extensive technical education and experience required for some positions, SAK CONSTRUCTION LLC will also continue to place job opportunity announcements in the company website

3. Advertisements and newsletters will always carry the Equal Employment Opportunity clause.

4. Minority and female applicants will be considered for all positions for which they are qualified.

5. SAK CONSTRUCTION LLC will participate in job fairs if there are sufficient numbers of opening to warrant participation. SAK CONSTRUCTION LLC will continue to identify job fairs specifically focused on females, minorities, people with disabilities and veterans.

6. SAK CONSTRUCTION LLC will continue to recruit at local colleges and universities. SAK CONSTRUCTION LLC targets universities based in part on the high-level of diversity of its student body.

7. The company will continue to employ co-op students who work during the summer and part-time during the school year.

8. SAK CONSTRUCTION LLC will continue to publish recruiting brochures where

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minority and female members of the workforce are included, as well as in other company literature.

Job Specifications/Selection Process:

1. Develop position descriptions that accurately reflect position functions, and are consistent for the same position from one location to another.

2. Develop job or worker specifications that contain academic, experience, and skill requirements that do not constitute inadvertent discrimination. Develop specifications that are free from bias with regard to age, race, color, gender, religion, national origin, disability or veteran status.

3. Approved position specifications and worker specifications will be made available to all members of management involved in the recruiting, screening, selection, and promotion process. Copies may also be made available to recruiting sources.

4. SAK CONSTRUCTION LLC will continue to use only worker specifications that include job-related criteria.

5. SAK CONSTRUCTION LLC will continue to carefully select and counsel all personnel involved in the recruiting, screening, selection, promotion, disciplinary, and related processes to eliminate bias in all personnel actions.

Job Advancement:

1. SAK CONSTRUCTION LLC will continue to post or announce job opportunities. SAK CONSTRUCTION LLC's Job Posting Policy System requires postings of all positions up to the Senior Management level.

2. SAK CONSTRUCTION LLC will continue to make use of the inventory of our current employee skills, when completed, to determine academic, skill, and experience level of individual employees.

3. Establish, whenever feasible, formal career counseling programs to include attitude Development, education, aid, job rotation, buddy system, and similar program.

4. Require supervisory personnel to submit justification when apparently qualified minority or female employees are passed over for upgrading.

5. Review seniority practices to ensure such practices are non-discriminatory and do not have discriminatory effect.

6. All employees are actively encouraged to participate in facilities and company-sponsored social and recreational activities.

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7. SAK CONSTRUCTION LLC will continue to use our formal employee evaluation program. The performance Appraisal is used for annual reviews for all employees.

8. Employees can choose training courses through SAK University and include them in their career development plan.

9. Tuition refund is offered to all employees with at least one year of service who are interested in pursuing an undergraduate degree or an advance degree, with certain limitations.

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CHAPTER 9: INTERNAL AUDIT AND REPORTING
41 C.F.R. § 60-2.17(d)

Inherent in the AAP is the need for periodic self-assessment of problems encountered, corrective action taken, and progress made. Self-evaluation requires complex record keeping systems on applicants, employees, and components of the AAP itself. Periodic reports from supervisors, department managers, the HR Manager, and other relevant persons are required.

The objective of all record keeping systems to be implemented is to assess the results of past actions, trends, the appropriateness of goals and objectives, the appropriateness and relevancy of identified solutions to problems, and the adequacy of the Plan as a whole. In addition, a further objective is to identify the proper corrective actions to be made to all components.

In order to fully achieve the objectives of such a record keeping system, the results of it must lead to follow-up through feedback to managers, supervisors, and staff, through reallocation of resources, through modifications to plans and the record keeping system itself, through appropriate recognition of personal achievements as well as punitive actions for discriminatory acts. For any identified deficiencies, appropriate corrective action will be identified and implemented.

The records that are maintained are the basis for updating the affirmative action plan, including revising the availability data and establishing annual numerical goals. The internal audit and reporting system is used as the basis for evaluating systemic, results-oriented programs and affirmative action efforts.

The SAK CONSTRUCTION LLC auditing and reporting system periodically measures the effectiveness of its total affirmative action program. The HR Manager:

1. Monitors records of all personnel activity, including referrals, placements, transfers, promotions, terminations, and compensation, at all levels to ensure the nondiscriminatory policy is carried out;

2. Requires internal reporting on a scheduled basis as to the degree to which equal employment opportunity and organizational objectives are attained;

3. Reviews report results with all levels of management; and

4. Advises top management of program effectiveness and submit recommendations to improve unsatisfactory performance.

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SAK Construction LLC

PART II: AFFIRMATIVE ACTION PLAN FOR PROTECTED VETERANS AND INDIVIDUALS WITH DISABILITIES

FOR

October 1, 2021 - September 30, 2022

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SAK CONSTRUCTION LLC AAP

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SAK Construction LLC

PART II: AFFIRMATIVE ACTION PLAN FOR PROTECTED VETERANS AND INDIVIDUALS WITH DISABILITIES

FOR

October 1, 2021 - September 30, 2022

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PART II

AAP FOR PROTECTED VETERANS AND INDIVIDUALS WITH DISABILITIES

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CHAPTER A: POLICY STATEMENT
41 C.F.R. §§ 60-300.44(a); 60-741.44(a)

It is the policy of SAK Construction LLC and my personal commitment that equal employment opportunity be provided in the employment and advancement for all persons regardless of race, religion, color, national origin, sex, age, sexual orientation/gender identity and status as a protected veteran or individual with a disability at all levels of employment, including the executive level. SAK Construction LLC does not and will not discriminate against any applicant or employee regardless of race, religion, color, national origin, sex, age, sexual orientation/gender identity and status as a protected veteran and/or individual with a disability to any position for which the applicant or employee is qualified. In addition, SAK Construction LLC is committed to a policy of taking affirmative action to employ and advance in employment qualified protected veteran employees and qualified employees with disabilities at all levels, including the executive level. Such affirmative action shall apply to all employment practices, including, but not limited to hiring, upgrading, demotion or transfer, recruitment, recruitment advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training, including apprenticeship and on-the-job training. Decisions related to personnel policies and practices shall be made on the basis of an individual's capacity to perform a particular job and the feasibility of any necessary job accommodation. SAK Construction LLC will make every effort to provide reasonable accommodations to any physical and mental limitations of individuals with disabilities and to disabled veterans.

Employees and applicants shall not be subjected to harassment, intimidation, threats, coercion or discrimination because they have engaged in or may engage in any activity protected by state, federal or local anti-discrimination laws including the following activities:

(1) Filing a complaint;

(2) Assisting or participating in an investigation, compliance evaluation, hearing, or any other activity related to the administration of the affirmative action provisions of the Vietnam Era Veterans' Readjustment Assistance Act of 1974, as amended (VEVRAA) or any other Federal, state or local law requiring equal opportunity for disabled veterans, recently separated veterans, active wartime or campaign badge veterans, or Armed Forces service medal veterans or Section 503 of the Rehabilitation Act of 1973, as amended (Section 503) or any other federal, state or local law requiring equal opportunity for disabled persons;;

(3) Opposing any act or practice made unlawful by VEVRAA or its implementing regulations or any other federal, state or local law requiring equal opportunity for disabled veterans, recently separated veterans, active wartime or campaign badge veterans, or Armed Forces service medal veterans or section 503 or its implementing regulations or any other federal, state or local law requiring equal opportunity for disabled persons; or

(4) Exercising any other right protected by VEVRAA or Section 503 or their implementing regulations.

Our obligations in this area stem from not only adherence to various state and federal

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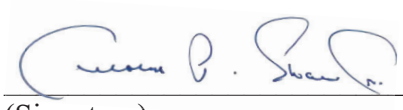
regulations, but also from our commitment as an employer in this community to provide job opportunities to all persons regardless of race, religion, color, national origin, sex, age, sexual orientation/gender identity and status as a protected veteran or an individual with disability. SAK Construction LLC's EEO policy and affirmative action obligations include the full support from ExecutiveTitle, CEOName.

SAK Construction LLC will also continually design and implement audit and reporting systems that will measure the effectiveness and the compliance of the AAP, identify the need for remedial actions, determine if objectives were attained, and determine if opportunities to participate in company-sponsored activities were extended to all employees and applicants.

The SAK Construction LLC is also committed to abiding with the Pay Transparency Nondiscrimination Provisions and therefore, will not discharge or in any other manner discriminate against employees or applicants because they have inquired about, discussed, or disclosed their own pay or the pay of another employee or applicant. The SAK Construction LLC's employees who have access to the compensation information of other employees or applicants as part of their essential job functions are informed and trained to not disclose the pay of other employees or applicants to individuals who do not otherwise have access to compensation information, unless the disclosure is (a) a response to a formal complaint or charge; (b) in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or (c) consistent with the SAK Construction LLC's legal duty to furnish the information.

It is also SAK Construction LLC's policy not to discriminate because of a person's relationship or association with a protected veteran. This includes spouses and other family members. Also, SAK Construction LLC will safeguard the fair and equitable treatment of protected veteran spouses and family members with regard to all employment actions and prohibit harassment of applicants and employees because of their relationship or association with a protected veteran.

If you have any questions regarding our equal employment opportunity, harassment policies or the complaint procedure, you may contact your local Human Resources representative. Parts of the Affirmative Action Plan may be reviewed, as appropriate, by making an appointment with a local Human Resources representative.



(Signature)

Jerry Shaw
President

10/01/21

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CHAPTER B: REVIEW OF PERSONNEL PROCESSES
41 C.F.R. §§ 60-300.44(b); 60-741.44(b)

To ensure that all personnel activities are conducted in a job-related manner which provides and promotes equal employment opportunity for all known protected veterans and employees and applicants with disabilities, reviews are periodically made of the Company's examination and selection methods to identify barriers to employment, training, and promotion.

1) SAK Construction LLC periodically conduct a review of its employment processes to ensure thorough and systematic consideration of the job qualifications of 1) known protected veteran applicants and employees; and 2) applicants and employees with disabilities for job vacancies filled either by external hiring or internal promotions/transfers, as well as for all training opportunities available. In order to determine whether an individual is qualified for a particular job, a close examination of the content of the job is made, as well as a review of the job qualifications of known protected veterans and individuals with disabilities, both applicants and employees. In determining the qualifications of a protected veteran, consideration is given only to that portion of the military record, including discharge papers, relevant to the job qualifications for which the veteran is being considered.

2) The company ensures that its personnel processes do not stereotype individuals with disabilities or protected veterans in a manner which limits their access to jobs for which they are qualified.

3) The company ensures that applicants and employees with disabilities have equal access to its personnel processes, including those implemented through information and communication technologies.

4) The company provides reasonable accommodations, unless such accommodations will cause undue hardship to the company, to applicants and employees with disabilities to ensure that equal employment opportunity are extended in the operation of its personnel processes.

5) The company ensures that information and communications systems are accessible to all employees and applicants with disabilities even in the absence of a specific request for accommodation.

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CHAPTER C: PHYSICAL AND MENTAL QUALIFICATIONS
41 C.F.R. §§ 60-300.44(c); 60-741.44(c)

To ensure that all physical and mental qualifications and requirements are job-related and promote equal employment opportunity for all known protected veterans and employees and applicants with qualified disabilities, reviews are periodically made of the Company's physical and mental qualifications and requirements as they relate to employment, training, and promotion.

The Company's physical and mental job requirements are reviewed to determine whether or not they are job-related and consistent with business necessity and safe performance on the job.

Schedule for Review: Any previously reviewed classification will be reviewed again if there is a change in working conditions which affects the job's physical or mental requirements (e.g., new requirements, new equipment, etc.)

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CHAPTER D: REASONABLE ACCOMMODATION TO PHYSICAL AND MENTAL LIMITATIONS
41 C.F.R §§ 60-300.44(d); 60-741.44(d)

SAK Construction LLC will make every effort to provide reasonable accommodations to physical and mental limitations of applicants and employees with disabilities or who are disabled veterans unless it can demonstrate that the accommodations would impose an undue hardship on the operation of business. Such reasonable accommodations are implemented in the company's electronic and/or online application systems. The company ensures that qualified applicants and employees with disabilities, who are unable to fully utilize the system, are provided equal opportunities to apply and be considered for all jobs. SAK Construction LLC will confidentially review performance issues of employees with known disabilities to determine whether a reasonable accommodation is needed when: 1) the employee is having significant difficulty with job performance, and 2) it is reasonable to conclude that the problem is related to the known disability.

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CHAPTER E: HARASSMENT
41 C.F.R. §§ 60-300.44(e); 60-741.44(e)

SAK Construction LLC has developed and implemented a set of procedures to ensure that its employees with disabilities and protected veterans are not harassed due to those conditions. A copy of the sexual harassment policy, which includes a section prohibiting harassment of individuals with disabilities and/or protected veterans are available for distribution to new as well as to existing employees.

SAK Construction LLC also takes affirmative steps to ensure policies and procedures are implemented to meet sexual harassment laws within the State of MO.

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CHAPTER F: EXTERNAL DISSEMINATION OF POLICY, OUTREACH AND POSITIVE RECRUITMENT
41 C.F.R. §§ 60-300.44(f); 60-741.44(f)

Based upon the Company's review of its personnel policies as described in Chapter B, the following activities will be implemented or continued to further enhance our affirmative action efforts. All activities are the responsibility of the Human Resources Manager.

1) Initiate and maintain communication with organizations having special interests in the recruitment of and job accommodations for protected veterans and individuals with disabilities.

2) Include workers with disabilities when employees are pictured in consumer, promotional, or help wanted advertising.

3) Disseminate information concerning employment opportunities to radio and television stations, and to publications that primarily reach protected veterans and individuals with disabilities.

4) Provide information emphasizing job opportunities for protected veterans and individuals with disabilities to all local educational institutions, public and private.

5) Inform all recruiting sources, in writing and orally, of the Company's affirmative action policy for protected veterans and individuals with disabilities.

6) List with the State Employment Development Department all suitable job openings.

   The exemptions for posting jobs are when positions are,
   (1) executive and top management positions,
   (2) positions that will be filled from within the contractor's organization,
   (3) and positions lasting three days or less.

   This is an on-going activity. A listing of job opportunities reported to the local State Employment Service Delivery System is always kept current.

7) Send written notification of the Company's affirmative action policy to all subcontractors, vendors, and suppliers requesting appropriate action on their part. This includes their obligation to annually file their EEO Reporting form and VETS 4212 form and, for employers with 50 or more employees and contracts of $50,000 or more, their obligation to develop a written affirmative action plan.

8) Conduct formal briefing sessions with representatives from recruiting sources. Include as part of the briefing sessions, facility tours, clear and concise explanations of current and future job openings, position descriptions, worker specifications, explanations of the Company's selection process, and recruiting literature. Arrange for referral of applicants, follow up with sources, and feedback on disposition of applicants.

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9) Participate in veterans "job fairs" and work study programs with Veterans' Administration rehabilitation facilities and schools which specialize in training or educating protected veterans.

10) SAK Construction LLC will also grant leaves of absence to employees who participate in honor guards for the funeral of veterans.

11) Annually review the outreach and recruitment efforts taken over the previous twelve months to evaluate their effectiveness in identifying and recruiting qualified protected veterans and individuals with disabilities. Identify and implement alternative efforts, if previous efforts are not effective.

12) Ensure that activities undertaken to comply with the obligations of this section are documented and such documents are retained for a period of three (3) years.

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CHAPTER G: INTERNAL DISSEMINATION OF POLICY
41 C.F.R. §§ 60-300.44(g); 60-741.44(g)

In order to gain positive support and understanding for the affirmative action program for protected veterans and individuals with disabilities SAK Construction LLC will implement or continue to implement the following internal dissemination procedures, all of which are the responsibility of the Human Resources Manager. The following policies and procedures are designed to foster support and understanding from SAK Construction LLC's executive staff, management, supervisors, and other employees in an effort to encourage all employees to take the necessary actions to aid SAK Construction LLC in meeting its obligations.

1) Include the policy in the Company's policy manual and other in-house publications.

2) Conduct special meetings with executive, management, and supervisory personnel to explain the intent of the policy and individual responsibility for effective implementation, making clear the President's attitude.

3) Schedule training sessions for all employees involved in recruiting, selection, promotion, and other related employment issues for protected veterans and individuals with disabilities.

4) Discuss the policy thoroughly in both employee orientation and management training programs.

5) Inform union officials of the contractor's policy, and request their cooperation.

6) Include non-discrimination clauses in all union agreements, and review all contractual provisions to ensure they are non-discriminatory.

7) Include articles on accomplishments of protected veterans and workers with disabilities in Company publications.

8) Post the policy on Company bulletin boards, along with the Company's harassment policy which includes protection from harassment on the basis of disability.

9) When employees are featured in employee handbooks or similar publications for employees, include employees with disabilities.

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CHAPTER H: AUDIT AND REPORTING SYSTEM
41 C.F.R. §§ 60-300.44(h); 60-741.44(h)

SAK Construction LLC has developed and currently implements an audit and reporting system that addresses the following:

1) Measures the effectiveness of SAK Construction LLC's overall affirmative action program and whether the company is in compliance with specific obligations.

2) Indicates the need for remedial action. Any corrective actions will be the responsibility of the Human Resources Manager.

3) Measures the degree to which SAK Construction LLC's objectives are being met.

4) Whether there are any undue hurdles for individuals with disabilities and protected veterans regarding company sponsored educational, training, recreational, and social activities. This will also include, but not limited, to the review of the on-line and electronic application system to determine their accessibility and ensuring that procedures to request for accommodations are prominently displayed and that individuals with disabilities can readily obtain the needed accommodation.

5) Ensures that outreach activities are documented and that such documents are kept for at least a period of three (3) years.

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CHAPTER I: RESPONSIBILITY FOR IMPLEMENTATION
41 C.F.R. §§ 60-300.44(i); 60-741.44(i)

As part of its efforts to ensure equal employment opportunity to protected veterans and individuals with disabilities, SAK Construction LLC has designated specific responsibilities to various staff to ensure the AAP focuses on all components of the employment system. To that end, the ExecutiveTitle, Chief Financial Officer, Human Resources Manager, and those employed as supervisors and managers have undertaken the responsibilities described below.

President

The President is responsible for providing top management support for the Company's AAP. This person issues a memo annually to reaffirm the Company's Equal Employment Opportunity Policy and to make known to all employees and applicants the commitment of Senior Management to EEO and affirmative action. Additional responsibilities include, but are not limited to:

1) Designating appropriate personnel with the responsibility for overseeing, administering, implementing, and monitoring the Company's AAP. Ensuring that these personnel are identified in writing by name and job title.

2) Ensuring that designated personnel responsible for all AAP components are given the necessary authority and top management support and staffing to successfully implement their assigned responsibilities.

3) Imparting the personal direction that ensures total involvement and commitment to equal employment opportunity programs through SAK Construction LLC's AAP.

Chief Financial Officer

The Chief Financial Officer is responsible for overall supervision of the AAP. The Chief Financial Officer ensures, through the Human Resources Manager and department managers and supervisors, that all relevant policies and procedures are adhered to. Successful implementation of this program is a basis for evaluating the Chief Financial Officer's effective work performance. The Chief Financial Officer's responsibilities include, but are not limited to, the following:

7) Presenting all needed recommendations and procedural changes to Senior Management concerning EEO and affirmative action and ensuring that Senior Management is kept informed of the Company's compliance status.

8) Maintaining Company-wide management support and cooperation for the Company's AAP.

9) Collaborating with Senior Management on EEO and AAP issues.

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10) Reviewing results of audit and reporting systems to assess the effectiveness of the Company's AA programs and to direct corrective actions where necessary.

11) Providing guidance to managers and supervisors in taking proper action to prevent employees from being harassed in any way, through one-on-one contact, training, and disciplinary action.

12) Providing guidance and direction to the Human Resources Manager.

Human Resources Manager

The Human Resources Manager is responsible for ensuring that the directives of the President and Chief Financial Officer are implemented. The Human Resources Manager's duties include, but are not limited to, the following:

1) Ensuring that the AAP is updated annually for all establishments.

2) Providing direction to the Company's employees, as necessary, to carry out all actions required to meet the Company's equal employment opportunity and affirmative action commitments.

3) Responsible for the design and effective implementation of the AAP at all establishments.

4) Developing, implementing, and maintaining audit and reporting systems to measure effectiveness of equal employment opportunity programs, including those that will

   a. Indicate need for remedial action,

   b. Determine degree to which goals and objectives have been obtained.

5) Advising management in the modification and development of the Company's policies to ensure the enhancement of equal employment opportunity for all employees and potential employees within existing equal employment opportunity guidelines.

6) Identifying problem areas and establishing procedures, goals and objectives to solve these problems.

7) SAK Construction, LLC conducts periodic audits to ensure that all required posters and the equal employment opportunity policies and AAP are displayed properly. SAK Construction, LLC also conducts audits to ensure that the Invitation to Self-Identify (pre and post offer) for protected veterans and individuals with disabilities,

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the Company's equal employment opportunity, and AAP policies are being utilized appropriately and thoroughly communicated.

8) Ensure that employees are re-surveyed regarding their disability status every five (5) years and send out reminders to employees, at least once during the five (5) year intervals, that they may voluntarily update their disability status at any time.

9) Developing policy statements, affirmative action programs, internal and external communication techniques.

10) Assisting line management in arriving at solutions to problems.

11) Serving as the liaison between SAK Construction, LLC and enforcement agencies.

12) Serving as the liaison between SAK Construction, LLC and organizations and community action groups for protected veterans and individuals with disabilities, in addition to ensuring that representatives are involved in community service programs of local organizations for protected veterans and individuals with disabilities.

13) Keeping management informed of the latest developments in the equal employment opportunity area.

14) Reviewing, reporting on, and updating the AAP annually in accordance with stated policy. Informing employees and applicants of significant changes.

15) Working closely with the CFO and department managers and supervisors in coordinating the effective implementation of all identified affirmative actions.

16) Assisting in review and revision of all policies, procedures, and rules to ensure they are not in violation of federal or state laws and regulations.

17) Responsible for ensuring overall the Company's compliance with the AAP.

18) Ensuring the Company's VETS 4212 form is filed annually with the Veterans' Employment and Training Service (VETS).

Senior HR Manager

1) Conducting periodic audits of: 1) training programs and hiring and promotion patterns to remove impediments to the attainment of AAP goals and objectives, and 2) the Company's sponsored educational, training, recreational, and social activities to ensure that all employees are encouraged to participate in accordance with policies on non-discrimination. Determine whether known protected veterans and employees with disabilities have had the opportunity to participate in all Company-sponsored educational, training, recreation, and social activities.

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2) Assisting line management in arriving at solutions to EEO/AA problems.

3) Providing guidelines in the development, preparation, and implementation of career counseling programs for known protected veterans and employees with disabilities.

Recruiter

1) Reviewing the qualifications of all employees to ensure equitable opportunity, based on job-related employment practices, is given to all for transfers and promotions.
2) Reviewing all job descriptions and specifications to ensure they are free of discriminatory provisions and artificial barriers. Ensuring that all requirements are job-related, that they are realistic, and that they reflect the actual work requirements of the essential job duties.

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CHAPTER J: TRAINING
41 C.F.R. §§ 60-300.44(j); 60-741.44(j)

SAK Construction LLC trains all employees involved in any way with the recruitment, selection, promotion, disciplinary actions, training, and related processes of individuals with disabilities or protected veterans to ensure commitment to the company's stated affirmative action goals.

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CHAPTER K: DATA COLLECTION ANALYSIS
41 C.F.R. §§ 60-300.44(k); 60-741.44(k)

SAK Construction LLC has adopted the current national percentage of veterans in the civilian labor force of 5.9% as its hiring benchmark for protected veterans. SAK Construction LLC will update its hiring benchmark as new data is published and updated via the OFCCP's website. The 5.9% hiring benchmark is applied to each job group within SAK Construction LLC.

SAK Construction LLC also adopted the current national utilization goal of 7.0% for qualified individuals with disabilities. SAK Construction LLC will update its utilization goal as new data becomes available, updated and published. The 7.0% utilization goal is applied *to each job group* within SAK Construction LLC.

Goals and/or benchmarks do not require that SAK Construction LLC hire, promote, train, and/or retain a specified number of individuals with disabilities and/or protected veterans. These goals/benchmarks are not rigid and inflexible quotas which must be met, but are instead targets reasonably attainable by means of applying every good faith effort to make all aspects of the entire AAP work. A goal is a guidepost against which SAK Construction LLC, a community group, or a compliance agency can measure progress in remedying identified deficiencies in SAK Construction LLC's workforce.

SAK Construction LLC has collected the required data and conducted studies to identify areas of opportunities in the employment of protected veterans and individuals with disabilities. SAK Construction LLC will continue to monitor and update these studies periodically during each AAP year. In each case where the hiring benchmark for protected veterans and/or the utilization goal for individuals with disabilities are not met, affirmative actions, as appropriate, will be taken consistent with the activities mentioned in Chapter F (External Dissemination of Policy and Outreach and Positive Recruitment) and measures described in Chapter H (Internal Audit and Reporting) of this AAP.

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CHAPTER L: COMPENSATION
41 C.F.R. §§ 60-300.21(i); 60-741.21(i)

It is the policy of SAK Construction LLC that when offering employment or promotion to protected veterans or individuals with disabilities, the amount of compensation offered will not be reduced because of any disability income, pension, or other benefit the applicant or employee receives from another source.

The SAK Construction LLC is also committed to abiding with the Pay Transparency Nondiscrimination Provisions. Employees or applicants who have inquired about, discussed, or disclosed their own pay or the pay of another employee or applicant will not be discharged or in any other manner be discriminated. Employees who have access to the compensation information of other employees or applicants as part of their essential job functions are informed and trained to not disclose the pay of other employees or applicants to individuals who do not otherwise have access to compensation information, unless the disclosure is (a) a response to a formal complaint or charge; (b) in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or (c) consistent with SAK Construction LLC's legal duty to furnish the information.

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Section E.

Schedule of Pricing/Cost

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E. Schedule of Pricing/Cost – 20 Points

Company: SAK Construction, LLC

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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	$ 20.00	$ 2,000.00
140	Exploratory Excavation (0-10' deep), Trench Detail - Type I Modified	EA	3	$ 8,500.00	$ 25,500.00
141	Exploratory Excavation (0-10' deep), Trench Detail - Type IV	EA	3	$ 9,500.00	$ 28,500.00
200	General Conditions, Modified, Maximum $100,000	LS	1	$ 100,000.00	$ 100,000.00
201	Project Supervision, Modified, Maximum $50,000	LS	1	$ 50,000.00	$ 50,000.00
202	Audiovisual Tape Coverage, Modified	LS	1	$ 5,500.00	$ 5,500.00
203	Minor Traffic Control, Modified, Maximum $100,000	LS	1	$ 100,000.00	$ 100,000.00
204	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	EA	10	$ 15.00	$ 150.00
205	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	EA	10	$ 5.00	$ 50.00
206	Channelizing Device, 42 inch, Furn	EA	100	$ 20.00	$ 2,000.00
207	Channelizing Device, 42 inch, Oper	EA	100	$ 5.00	$ 500.00
208	Lighted Arrow, Type C, Furn	EA	4	$ 1,500.00	$ 6,000.00
209	Lighted Arrow, Type C, Oper	EA	4	$ 500.00	$ 2,000.00
210	Plastic Drum, High Intensity, Lighted, Furn	EA	100	$ 15.00	$ 1,500.00
211	Plastic Drum, High Intensity, Lighted, Oper	EA	100	$ 5.00	$ 500.00
212	Sign, Type B, Temp, Prismatic, Furn	SF	1,250	$ 15.00	$ 18,750.00
213	Sign, Type B, Temp, Prismatic, Oper	SF	1,250	$ 5.00	$ 6,250.00
214	"No Parking" Sign	EA	50	$ 50.00	$ 2,500.00
215	Sewer Flow Control	LS	1	$ 9,025.75	$ 9,025.75
217	8 inch Diameter CIPP Sewer Lining	LF	17,963	$ 76.25	$ 1,369,678.75
218	10 inch Diameter CIPP Sewer Lining	LF	1,095	$ 76.75	$ 84,041.25
219	12 inch Diameter CIPP Sewer Lining	LF	3,628	$ 77.00	$ 279,356.00
220	15 inch Diameter CIPP Sewer Lining	LF	351	$ 115.00	$ 40,365.00
221	18 inch Diameter CIPP Sewer Lining	LF	470	$ 162.00	$ 76,140.00
225	30 inch Diameter CIPP Sewer Lining	LF	312	$ 394.00	$ 122,928.00

Total This Page **$** 2,333,234.00

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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	$ 14.50	$ 1,450.00
229	Rem. Concrete Sidewalk, Ramp and Drive, Any Thickness, Modified	SFT	100	$ 6.50	$ 650.00
230	Aggregate Base	TON	100	$ 22.00	$ 2,200.00
231	Hand Patching	TON	100	$ 550.00	$ 55,000.00
232	Concrete Curb or Curb & Gutter – Any Type	LF	100	$ 90.00	$ 9,000.00
233	4” Concrete Sidewalk, Modified	SFT	50	$ 35.00	$ 1,750.00
234	6” Concrete Sidewalk, Ramp, Drive Approach, Modified	SFT	50	$ 40.00	$ 2,000.00
235	6” Concrete Sidewalk, Ramp, Drive Approach, High Early	SFT	50	$ 45.00	$ 2,250.00
236	Concrete Type M Drive Opening, High Early	LF	50	$ 105.00	$ 5,250.00
237	Inlet Filter, Special	Each	25	$ 175.00	$ 4,375.00
238	Level 2 MACP Inspect Manhole	EA	50	200.00	$ 10,000.00
239	Internal Chimney Seal	Each	50	$ 450.00	$ 22,500.00
240	Reconstruct Flow Channel	Each	50	$ 550.00	$ 27,500.00
241	Manhole Cementitious Liner	Vf	100	$ 180.00	$ 18,000.00
242	Clean-Up & Restoration, Special	LS	1	$ 1,000.00	$ 1,000.00
243	Certified Payroll Complianace and Reporting	LS	1	$ 1,500.00	$ 1,500.00
305	8" SDR 26 PVC Sewer, Trench Detail - Type I Modified	LF	100	$ 850.00	$ 85,000.00
306	10" SDR 26 PVC Sewer, Trench Detail - Type I Modified	LF	100	$ 940.00	$ 94,000.00
307	12" SDR 26 PVC Sewer, Trench Detail - Type I Modified	LF	100	$ 1,000.00	$ 100,000.00
308	15" SDR 26 PVC Sewer, Trench Detail - Type I Modified	LF	50	$ 1,000.00	$ 50,000.00
309	18" SDR 26 PVC Sewer, Trench Detail - Type I Modified	LF	50	$ 1,200.00	$ 60,000.00
311	30" SDR 26 PVC Sewer, Trench Detail - Type I Modified	LF	50	$ 1,560.00	$ 78,000.00
353	4" SDR 35 PVC Service Lead	LF	100	$ 250.00	$ 25,000.00

Total This Page $ 656,425.00 -

Total From BF-1 $ 2,333,234.00 -

Total Base Bid **$** 2,989,659.00 -

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Section F.

Authorized Negotiator

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F. Authorized Negotiator / Negotiable Elements (Alternates)

Boyd Hirtz
Vice President
864 Hoff Road
O'Fallon, MO 63366
636-385-1000 / bidcippc@sakcon.com

SAK Construction has no alternates or exceptions to this proposal. SAK complies with the time stipulated in Article III of the Contract, Time of Completion.

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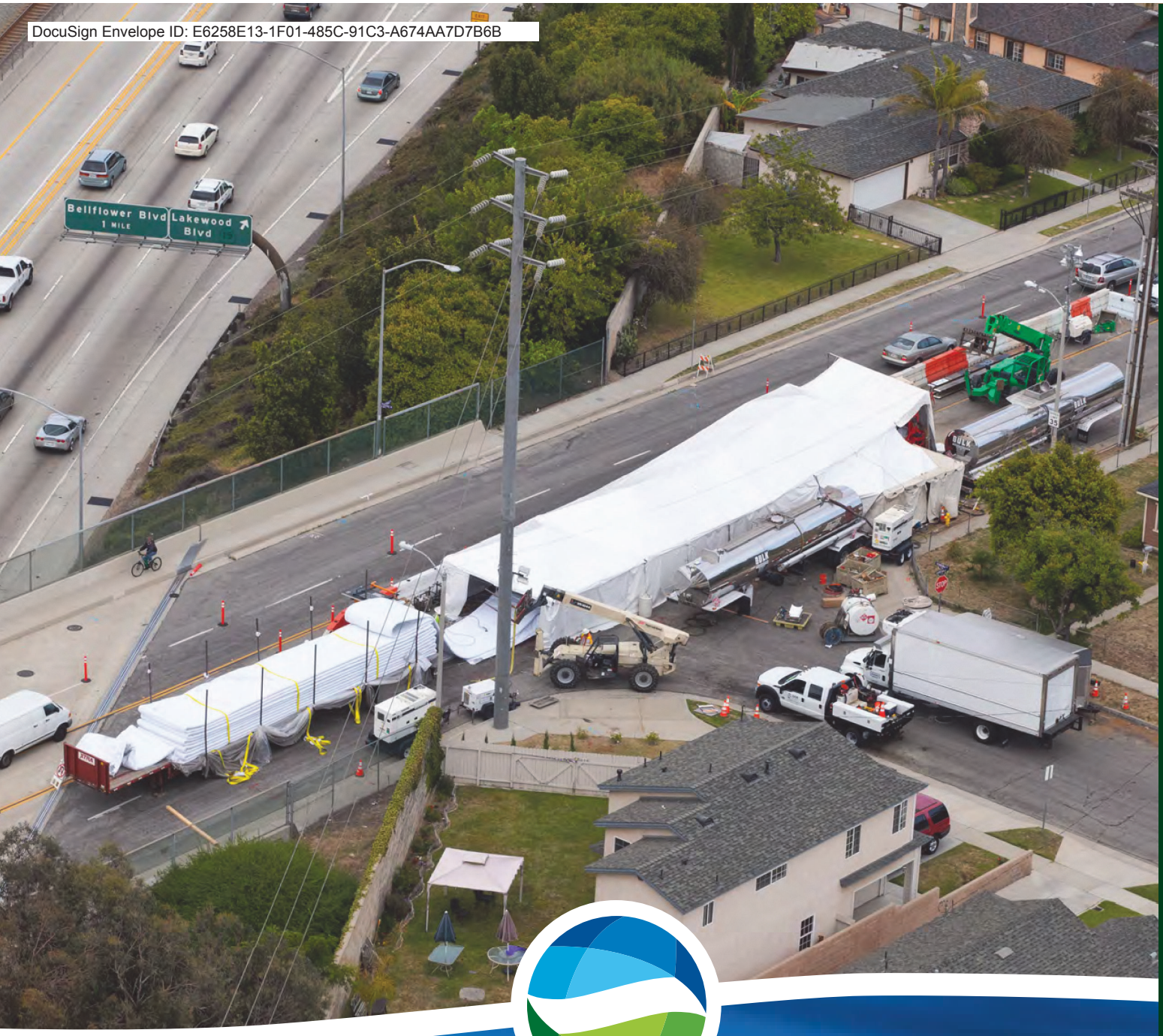

Section G.
Attachments

DocuSign Envelope ID: E6258E13-1F01-485C-91C3-A674AA7D7B6B

ATTACHMENT B
GENERAL DECLARATIONS

City of Ann Arbor
Guy C. Larcom Municipal Building
Ann Arbor, Michigan 48107

Ladies and Gentlemen:

The undersigned, as Bidder, declares that this Bid is made in good faith, without fraud or collusion with any person or persons bidding on the same Contract; that this Bidder has carefully read and examined the bid documents, including City Nondiscrimination requirements and Declaration of Compliance Form, Living Wage requirements and Declaration of Compliance Form, Prevailing Wage requirements and Declaration of Compliance Form, Vendor Conflict of Interest Form, Notice of Pre-Bid Conference, General Information, Bid, Bid Forms, Contract, Bond Forms, General Conditions, Standard Specifications, Detailed Specifications, all Addenda, and the Plans (if applicable) and understands them. The Bidder declares that it conducted a full investigation at the site and of the work proposed and is fully informed as to the nature of the work and the conditions relating to the work's performance. The Bidder also declares that it has extensive experience in successfully completing projects similar to this one.

The Bidder acknowledges that it has not received or relied upon any representations or warrants of any nature whatsoever from the City of Ann Arbor, its agents or employees, and that this Bid is based solely upon the Bidder's own independent business judgment.

The undersigned proposes to perform all work shown on the plans or described in the bid documents, including any addenda issued, and to furnish all necessary machinery, tools, apparatus, and other means of construction to do all the work, furnish all the materials, and complete the work in strict accordance with all terms of the Contract of which this Bid is one part.

In accordance with these bid documents, and Addenda numbered 1, the undersigned, as Bidder, proposes to perform at the sites in and/or around Ann Arbor, Michigan, all the work included herein for the amounts set forth in the Bid Forms.

The Bidder declares that it has become fully familiar with the liquidated damage clauses for completion times and for compliance with City Code Chapter 112, understands and agrees that the liquidated damages are for the non-quantifiable aspects of non-compliance and do not cover actual damages that may be shown and agrees that if awarded the Contract, all liquidated damage clauses form part of the Contract.

The Bidder declares that it has become fully familiar with the provisions of Chapter 14, Section 1:320 (Prevailing wages) and Chapter 23 (Living Wage) of the Code of the City of Ann Arbor and that it understands and agrees to comply, to the extent applicable to employees providing services to the City under this Contract, with the wage and reporting requirements stated in the City Code provisions cited. Bidder certifies that the statements contained in the City Prevailing Wage and Living Wage Declaration of Compliance Forms are true and correct. Bidder further agrees that the cited provisions of Chapter 14 and Chapter 23 form a part of this Contract.

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The Bidder declares that it has become familiar with the City Conflict of Interest Disclosure Form and certifies that the statement contained therein is true and correct.

The Bidder encloses a certified check or Bid Bond in the amount of 5% of the total of the Bid Price. The Bidder agrees both to contract for the work and to furnish the necessary Bonds and insurance documentation within 10 days after being notified of the acceptance of the Bid.

If this Bid is accepted by the City and the Bidder fails to contract and furnish the required Bonds and insurance documentation within 10 days after being notified of the acceptance of this Bid, then the Bidder shall be considered to have abandoned the Contract and the certified check or Bid Bond accompanying this Bid shall become due and payable to the City.

If the Bidder enters into the Contract in accordance with this Bid, or if this Bid is rejected, then the accompanying check or Bid Bond shall be returned to the Bidder.

In submitting this Bid, it is understood that the right is reserved by the City to accept any Bid, to reject any or all Bids, to waive irregularities and/or informalities in any Bid, and to make the award in any manner the City believes to be in its best interest.

SIGNED THIS 7th DAY OF September 2023.

SAK Construction, LLC	
Bidder's Name	Authorized Signature of Bidder
864 Hoff Road, O'Fallon, MO 63366	Boyd Hirtz, Vice President
Official Address	(Print Name of Signer Above)
636-385-1000	bidcippc@sakcon.com
Telephone Number	Email Address for Award Notice

DocuSign Envelope ID: E6258E13-1F01-485C-91C3-A674AA7D7B6B

ATTACHMENT C
LEGAL STATUS OF BIDDER

(The bidder shall fill out the appropriate form and strike out the other three.)

Bidder declares that it is:

~~* A corporation organized and doing business under the laws of the State of _____, for whom _____, bearing the office title of _____, whose signature is affixed to this Bid, is authorized to execute contracts.~~

NOTE: If not incorporated in Michigan, please attach the corporation's Certificate of Authority

• A limited liability company doing business under the laws of the State of Missouri, whom Boyd Hirtz bearing the title of Vice President whose signature is affixed to this proposal, is authorized to execute contract on behalf of the LLC.

~~* A partnership, organized under the laws of the state of _____ and filed in the county of _____, whose members are (list all members and the street and mailing address of each) (attach separate sheet if necessary):~~

_____

_____

_____

_____

_____

~~* An individual, whose signature with address, is affixed to this Bid:~~ _____ _____
~~(initial here)~~

Authorized Official

_____ **Date** September 7, 2023

(Print) Name Boyd Hirtz Title Vice President

Company: SAK Construction, LLC

Address: 864 Hoff Road, O'Fallon, MO 63366

Contact Phone (636) 385-1000 Fax (636) 385-1100

Email bidcippc@sakcon.com

DocuSign Envelope ID: E6258E13-1F01-485C-91C3-A674AA7D7B6B

ATTACHMENT D
PREVAILING WAGE DECLARATION OF COMPLIANCE

The "wage and employment requirements" of Section 1:320 of Chapter 14 of Title I of the Ann Arbor City Code mandates that the city not enter any contract, understanding or other arrangement for a public improvement for or on behalf of the city unless the contract provides that all craftsmen, mechanics and laborers employed directly on the site in connection with said improvements, including said employees of subcontractors, shall receive the prevailing wage for the corresponding classes of craftsmen, mechanics and laborers, as determined by statistics for the Ann Arbor area compiled by the United States Department of Labor. Where the contract and the Ann Arbor City Code are silent as to definitions of terms required in determining contract compliance with regard to prevailing wages, the definitions provided in the Davis-Bacon Act as amended (40 U.S.C. 278-a to 276-a-7) for the terms shall be used. Further, to the extent that any employees of the contractor providing services under this contract are not part of the class of craftsmen, mechanics and laborers who receive a prevailing wage in conformance with section 1:320 of Chapter 14 of Title I of the Code of the City of Ann Arbor, employees shall be paid a prescribed minimum level of compensation (i.e. Living Wage) for the time those employees perform work on the contract in conformance with section 1:815 of Chapter 23 of Title I of the Code of the City of Ann Arbor.

At the request of the city, any contractor or subcontractor shall provide satisfactory proof of compliance with this provision.

The Contractor agrees:

(a) To pay each of its employees whose wage level is required to comply with federal, state or local prevailing wage law, for work covered or funded by this contract with the City,

(b) To require each subcontractor performing work covered or funded by this contract with the City to pay each of its employees the applicable prescribed wage level under the conditions stated in subsection (a) or (b) above

(c) To provide to the City payroll records or other documentation within ten (10) business days from the receipt of a request by the City.

(d) To permit access to work sites to City representatives for the purposes of monitoring compliance, and investigating complaints or non-compliance.

The undersigned states that he/she has the requisite authority to act on behalf of his/her employer in these matters and has offered to provide the services in accordance with the terms of the wage and employment provisions of the Chapter 14 of the Ann Arbor City Code. The undersigned certifies that he/she has read and is familiar with the terms of Section 1:320 of Chapter 14 of the Ann Arbor City Code and by executing this Declaration of Compliance obligates his/her employer and any subcontractor employed by it to perform work on the contract to the wage and employment requirements stated herein. The undersigned further acknowledges and agrees that if it is found to be in violation of the wage and employment requirements of Section 1:320 of the Chapter 14 of the Ann Arbor City Code it shall has be deemed a material breach of the terms of the contract and grounds for termination of same by the City

SAK Construction, LLC
Company Name

Signature of Authorized Representative — 9/07/2023 Date

Boyd Hirtz, Vice President
Print Name and Title

864 Hoff Road, O'Fallon, MO 63366
Address, City, State, Zip

636-385-1000 / bidcippc@sakcon.com
Phone/Email address

Questions about this form? Contact Procurement Office City of Ann Arbor Phone: 734/794-6500

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ATTACHMENT E

LIVING WAGE ORDINANCE DECLARATION OF COMPLIANCE

The Ann Arbor Living Wage Ordinance (Section 1:811-1:821 of Chapter 23 of Title I of the Code) requires that an employer who is (a) a contractor providing services to or for the City for a value greater than $10,000 for any twelve-month contract term, or (b) a recipient of federal, state, or local grant funding administered by the City for a value greater than $10,000, or (c) a recipient of financial assistance awarded by the City for a value greater than $10,000, shall pay its employees a prescribed minimum level of compensation (i.e., Living Wage) for the time those employees perform work on the contract or in connection with the grant or financial assistance. The Living Wage must be paid to these employees for the length of the contract/program.

Companies employing fewer than 5 persons and non-profits employing fewer than 10 persons are exempt from compliance with the Living Wage Ordinance. If this exemption applies to your company/non-profit agency please check here [___] *No. of employees*__

The Contractor or Grantee agrees:

(a) To pay each of its employees whose wage level is not required to comply with federal, state or local prevailing wage law, for work covered or funded by a contract with or grant from the City, no less than the Living Wage. The current Living Wage is defined as $15.90/hour for those employers that provide employee health care (as defined in the Ordinance at Section 1:815 Sec. 1 (a)), or no less than $17.73/hour for those employers that do not provide health care. The Contractor or Grantor understands that the Living Wage is adjusted and established annually on April 30 in accordance with the Ordinance and covered employers shall be required to pay the adjusted amount thereafter to be in compliance with Section 1:815(3).

Check the applicable box below which applies to your workforce

[___] Employees who are assigned to any covered City contract/grant will be paid at or above the applicable living wage without health benefits

[X] Employees who are assigned to any covered City contract/grant will be paid at or above the applicable living wage with health benefits

(b) To post a notice approved by the City regarding the applicability of the Living Wage Ordinance in every work place or other location in which employees or other persons contracting for employment are working.

(c) To provide to the City payroll records or other documentation within ten (10) business days from the receipt of a request by the City.

(d) To permit access to work sites to City representatives for the purposes of monitoring compliance, and investigating complaints or non-compliance.

(e) To take no action that would reduce the compensation, wages, fringe benefits, or leave available to any employee covered by the Living Wage Ordinance or any person contracted for employment and covered by the Living Wage Ordinance in order to pay the living wage required by the Living Wage Ordinance.

The undersigned states that he/she has the requisite authority to act on behalf of his/her employer in these matters and has offered to provide the services or agrees to accept financial assistance in accordance with the terms of the Living Wage Ordinance. The undersigned certifies that he/she has read and is familiar with the terms of the Living Wage Ordinance, obligates the Employer/Grantee to those terms and acknowledges that if his/her employer is found to be in violation of Ordinance it may be subject to civil penalties and termination of the awarded contract or grant of financial assistance.

SAK Construction, LLC Company Name	864 Hoff Road Street Address
 Signature of Authorized Representative	9/07/2023 Date
	O'Fallon, MO 63366 City, State, Zip
Boyd Hirtz, Vice President Print Name and Title	636-385-1000 / bidcippc@sakcon.com Phone/Email address

DocuSign Envelope ID: E6258E13-1F01-485C-91C3-A674AA7D7B6B

Attachment F

CITY OF ANN ARBOR
LIVING WAGE ORDINANCE

RATE EFFECTIVE APRIL 30, 2023 - ENDING APRIL 29, 2024

$15.90 per hour
If the employer provides health care benefits*

$17.73 per hour
If the employer does **NOT** provide health care benefits*

Employers providing services to or for the City of Ann Arbor or recipients of grants or financial assistance from the City of Ann Arbor for a value of more than $10,000 in a twelve-month period of time must pay those employees performing work on a City of Ann Arbor contract or grant, the above living wage.

V.

W. ENFORCEMENT

X. The City of Ann Arbor may recover back wages either administratively or through court action for the employees that have been underpaid in violation of the law. Persons denied payment of the living wage have the right to bring a civil action for damages in addition to any action taken by the City.

Violation of this Ordinance is punishable by fines of not more than $500/violation plus costs, with each day being considered a separate violation. Additionally, the City of Ann Arbor has the right to modify, terminate, cancel or suspend a contract in the event of a violation of the Ordinance.

* Health Care benefits include those paid for by the employer or making an employer contribution toward the purchase of health care. The employee contribution must not exceed $.50 an hour for an average work week; and the employer cost or contribution must equal no less than $1/hr for the average work week.

The Law Requires Employers to Display This Poster Where Employees Can Readily See It.

For Additional Information or to File a Complaint contact
Colin Spencer at 734/794-6500 or cspencer@a2gov.org

Revised 2/1/2023

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ATTACHEMENT G

Vendor Conflict of Interest Disclosure Form

All vendors interested in conducting business with the City of Ann Arbor must complete and return the Vendor Conflict of Interest Disclosure Form in order to be eligible to be awarded a contract. Please note that all vendors are subject to comply with the City of Ann Arbor's conflict of interest policies as stated within the certification section below.

If a vendor has a relationship with a City of Ann Arbor official or employee, an immediate family member of a City of Ann Arbor official or employee, the vendor shall disclose the information required below.

1. No City official or employee or City employee's immediate family member has an ownership interest in vendor's company or is deriving personal financial gain from this contract.
2. No retired or separated City official or employee who has been retired or separated from the City for less than one (1) year has an ownership interest in vendor's Company.
3. No City employee is contemporaneously employed or prospectively to be employed with the vendor.
4. Vendor hereby declares it has not and will not provide gifts or hospitality of any dollar value or any other gratuities to any City employee or elected official to obtain or maintain a contract.
5. Please note any exceptions below:

Conflict of Interest Disclosure*	
Name of City of Ann Arbor employees, elected officials or immediate family members with whom there may be a potential conflict of interest.	( ) Relationship to employee ( ) Interest in vendor's company ( ) Other (please describe in box below)
N/A	

*Disclosing a potential conflict of interest does not disqualify vendors In the event vendors do not disclose potential conflicts of interest and they are detected by the City, vendor will be exempt from doing business with the City.

I certify that this Conflict of Interest Disclosure has been examined by me and that its contents are true and correct to my knowledge and belief and I have the authority to so certify on behalf of the Vendor by my signature below:

SAK Construction, LLC		636-385-1000
Vendor Name		**Vendor Phone Number**
	9/07/2023	Boyd Hirtz, Vice President
Signature of Vendor Authorized Representative	**Date**	**Printed Name of Vendor Authorized Representative**

Questions about this form? Contact Procurement Office City of Ann Arbor Phone: 734/794-6500, procurement@a2gov.org

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ATTACHMENT H

DECLARATION OF COMPLIANCE

Non-Discrimination Ordinance

The "non discrimination by city contractors" provision of the City of Ann Arbor Non-Discrimination Ordinance (Ann Arbor City Code Chapter 112, Section 9:158) requires all contractors proposing to do business with the City to treat employees in a manner which provides equal employment opportunity and does not discriminate against any of their employees, any City employee working with them, or any applicant for employment on the basis of actual or perceived age, arrest record, color, disability, educational association, familial status, family responsibilities, gender expression, gender identity, genetic information, height, HIV status, marital status, national origin, political beliefs, race, religion, sex, sexual orientation, source of income, veteran status, victim of domestic violence or stalking, or weight. It also requires that the contractors include a similar provision in all subcontracts that they execute for City work or programs.

In addition the City Non-Discrimination Ordinance requires that all contractors proposing to do business with the City of Ann Arbor must satisfy the contract compliance administrative policy adopted by the City Administrator. A copy of that policy may be obtained from the Purchasing Manager

The Contractor agrees:

(a) To comply with the terms of the City of Ann Arbor's Non-Discrimination Ordinance and contract compliance administrative policy, including but not limited to an acceptable affirmative action program if applicable.

(b) To post the City of Ann Arbor's Non-Discrimination Ordinance Notice in every work place or other location in which employees or other persons are contracted to provide services under a contract with the City.

(c) To provide documentation within the specified time frame in connection with any workforce verification, compliance review or complaint investigation.

(d) To permit access to employees and work sites to City representatives for the purposes of monitoring compliance, or investigating complaints of non-compliance.

The undersigned states that he/she has the requisite authority to act on behalf of his/her employer in these matters and has offered to provide the services in accordance with the terms of the Ann Arbor Non-Discrimination Ordinance. The undersigned certifies that he/she has read and is familiar with the terms of the Non-Discrimination Ordinance, obligates the Contractor to those terms and acknowledges that if his/her employer is found to be in violation of Ordinance it may be subject to civil penalties and termination of the awarded contract.

SAK Construction, LLC
Company Name

Signature of Authorized Representative — 9/07/2023 Date

Boyd Hirtz, Vice President
Print Name and Title

864 Hoff Road, O'Fallon, MO 63366
Address, City, State, Zip

636-385-1000 / bidcippc@sakcon.com
Phone/Email Address

Questions about the Notice or the City Administrative Policy, Please contact:
Procurement Office of the City of Ann Arbor
(734) 794-6500

DocuSign Envelope ID: E6258E13-1F01-485C-91C3-A674AA7D7B6B

ATTACHMENT I

CITY OF ANN ARBOR NON-DISCRIMINATION ORDINANCE

Relevant provisions of Chapter 112, Nondiscrimination, of the Ann Arbor City Code are included below.
You can review the entire ordinance at www.a2gov.org/humanrights.

Intent: It is the intent of the city that no individual be denied equal protection of the laws; nor shall any individual be denied the enjoyment of his or her civil or political rights or be discriminated against because of actual or perceived age, arrest record, color, disability, educational association, familial status, family responsibilities, gender expression, gender identity, genetic information, height, HIV status, marital status, national origin, political beliefs, race, religion, sex, sexual orientation, source of income, veteran status, victim of domestic violence or stalking, or weight.

Discriminatory Employment Practices: No person shall discriminate in the hire, employment, compensation, work classifications, conditions or terms, promotion or demotion, or termination of employment of any individual. No person shall discriminate in limiting membership, conditions of membership or termination of membership in any labor union or apprenticeship program.

Discriminatory Effects: No person shall adopt, enforce or employ any policy or requirement which has the effect of creating unequal opportunities according to actual or perceived age, arrest record, color, disability, educational association, familial status, family responsibilities, gender expression, gender identity, genetic information, height, HIV status, marital status, national origin, political beliefs, race, religion, sex, sexual orientation, source of income, veteran status, victim of domestic violence or stalking, or weight for an individual to obtain housing, employment or public accommodation, except for a bona fide business necessity. Such a necessity does not arise due to a mere inconvenience or because of suspected objection to such a person by neighbors, customers or other persons.

Nondiscrimination by City Contractors: All contractors proposing to do business with the City of Ann Arbor shall satisfy the contract compliance administrative policy adopted by the City Administrator in accordance with the guidelines of this section. All city contractors shall ensure that applicants are employed and that employees are treated during employment in a manner which provides equal employment opportunity and tends to eliminate inequality based upon any classification protected by this chapter. All contractors shall agree not to discriminate against an employee or applicant for employment with respect to hire, tenure, terms, conditions, or privileges of employment, or a matter directly or indirectly related to employment, because of any applicable protected classification. All contractors shall be required to post a copy of Ann Arbor's Non-Discrimination Ordinance at all work locations where its employees provide services under a contract with the city.

Complaint Procedure: If any individual believes there has been a violation of this chapter, he/she may file a complaint with the City's Human Rights Commission. The complaint must be filed within 180 calendar days from the date of the individual's knowledge of the allegedly discriminatory action or 180 calendar days from the date when the individual should have known of the allegedly discriminatory action. A complaint that is not filed within this timeframe cannot be considered by the Human Rights Commission. To file a complaint, first complete the complaint form, which is available at www.a2gov.org/humanrights. Then submit it to the Human Rights Commission by e-mail (hrc@a2gov.org), by mail (Ann Arbor Human Rights Commission, PO Box 8647, Ann Arbor, MI 48107), or in person (City Clerk's Office). For further information, please call the commission at 734-794-6141 or e-mail the commission at hrc@a2gov.org.

Private Actions For Damages or Injunctive Relief: To the extent allowed by law, an individual who is the victim of discriminatory action in violation of this chapter may bring a civil action for appropriate injunctive relief or damages or both against the person(s) who acted in violation of this chapter.

THIS IS AN OFFICIAL GOVERNMENT NOTICE AND
MUST BE DISPLAYED WHERE EMPLOYEES CAN READILY SEE IT.

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DETAILED SPECIFICATION
FOR
CONTRACTOR QUALIFICATIONS

a. General.- As detailed elsewhere in the Contract Documents and Drawings the work of this project is to be performed in a sensitive, valuable, natural area within the City of Ann Arbor (City). This Detailed Specification sets forth criteria that will be used by the City in determining if the Contractor has the necessary personnel, equipment, and experience to perform the work of this project.

b. Documentation to be provided.- The Contractor Qualifications detailed in this specification apply to the following items:

- Sewer Televising and Cleaning
- Cured-In-Place Pipe (CIPP) Lining
- Onsite Superintendent/Foreman

Contractor to complete the attached Reference Form and submit it as part of the bid submittal. **Not filling out the form or providing past experience may result in disqualification of the bid**. If subcontractors are to be used for any of the above items, they are to fill out a separate form.

The projects and total footage claimed to have been performed by the Contractor shall be supported by owner references. The Contractor shall submit information to document their experience.

1. **Sewer Televising and Cleaning.-** The Contractor performing the sewer televising and cleaning shall be fully qualified, experienced, and equipped to complete this work as shown on the Drawings and as indicated in the specifications. The Contractor shall have cleaned and televised a minimum of 100,000 lineal feet of sanitary sewers equal to or greater than 36 inches in diameter with lengths of the individual segments over 1,000 feet each in the past 7 years. The Contractor shall also have cleaned and televised at least 3 sanitary siphon sewers equal to or greater than 24 inches in diameter in the past 7 years. The Contractor shall have also worked a minimum of three projects in similar environmentally sensitive areas in the past 7 years. The Contractor shall provide detailed description of these environmentally sensitive projects and methods used to mitigate the work upon request of the Engineer.

2. **Sewer CIPP Lining.-** The Contractor performing the CIPP lining work shall be fully qualified, experienced, and equipped to complete this work expeditiously and in a satisfactory manner and shall be certified and/or licensed as an installer by the CIPP manufacturer. The Contractor shall have installed a minimum of 10,000 lineal feet of CIPP in sanitary sewers equal to or greater than 36 inches in diameter in the past 7 years and over 1,000,000 feet of lining in general over the past 7 years. Installations must have been in northern states and/or Canada. Contractor must also provide safety record for the past 7 years.

3. **Onsite Superintendent/Foreman.-** The full-time, onsite superintendent/ foreman shall be responsible for supervising all the work onsite, including but not limited to, the diversion of sanitary flow, bypass pumping, sewer televising and cleaning, and sewer CIPP lining, shall have supervised a minimum of 3 projects of this complexity in the past 7 years and shall have installed a minimum of 10,000 lineal feet of CIPP in sanitary sewers greater than 24 inches in diameter in the past 7 years.

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DETAILED SPECIFICATION
FOR
CONTRACTOR QUALIFICATIONS

1. Sewer Televising and Cleaning References
(Must be completed and submitted with Bid for consideration)

List sewer cleaning and televising projects of sewers equal to or greater than 36 inches in size that total (together) over 100,000 lineal feet with the lengths of the individual segments over 1,000 feet in the past 7 years and provide references. Also, list a minimum of 3 projects that include the cleaning and televising of the sanitary siphon sewers equal to or greater than 24 inches in size in the past 7 years and provide references. The Contractor shall have also worked a minimum of three projects in similar environmentally sensitive areas in the past 7 years.

Firm's Name: **Pipetek Infrastructure Services**

Role on Project: **Subcontractor**

1.1. Client's Name: **City of Dearborn Heights, MI**

Address: **24600 Van Born Rd., Dearborn Heights, MI 48125**

Contact Name: **Dave Borowski** Contact Phone: **(313) 791 - 6007**

Type of Work: **6" - 36" Sewer cleaning and inspection, Grease & Root control, CIPP Point Repairs, Catch Basin Cleaning, 24"-36" Siphon cleaning and inspection, emergency services.**

Year Work Performed: **2018 - Present** Work Amount ($): **$1,481,000.00**

1.2. Client's Name: **Wayne County, MI**

Address: **400 Monroe St. 3rd Floor, Detroit, MI 48226**

Contact Name: **Richard Hodges** Contact Phone: **(734) 955 - 2351**

Type of Work: **Emergency Storm sewer cleaning and inspection 8"-48", routine sewer cleaning, sink hole investigation, hydro-excavation, waste hauling and disposal.**

Year Work Performed: **2018 - Present** Work Amount ($): **$3M then additional $2M**

1.3. Client's Name: **City of Troy, MI**

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Address: **500 W. Big Beaver, Troy, MI 48084**

Contact Name: **Scott Finlay** Contact Phone: **(248) 524-3383**

Type of Work: **Large diameter sanitary sewer cleaning and PACP inspections of 36"- 48" sewers. An additonal $50,000 was added for siphon cleaning of 36" lines.**

Year Work Performed: **2021-2022** Work Amount ($): **$245,736.70**

1.4. Client's Name: **Macomb Township, MI**

Address: **54111 Broughton Rd., Macomb Twp, MI 48042**

Contact Name: **Gerry Wangelin** Contact Phone: **(586) 405 - 3378**

Type of Work: **Sanitary sewer cleaning and inspection of sewer lines ranging in size from 8" - 72" within Macomb Township.**

Year Work Performed: **2019 - 2022** Work Amount ($): **$1,415,000.00**

1.5. Client's Name: **Puris Corp - DWS-938**

Address: **28529 Goddard Rd., Romulus, MI 48174**

Contact Name: **John Thompson** Contact Phone: **(734) 955 - 2508**

Type of Work: **Subcontracted to perform cleaning and inspection in the City of Detroit on sewer lines ranging in size from 6" - 90", sonar and laser inspection of sewers ranging in size from 18" - 180", Catch basin cleaning and level 2 inspections, grease and root control**

Year Work Performed: **2023** Work Amount ($): **$3,020,000.00**

1.6. Client's Name: **Wayne County, MI - RVSDS**

Address: **400 Monroe St. 3rd Floor, Detroit, MI 48226**

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DETAILED SPECIFICATION
FOR
CONTRACTOR QUALIFICATIONS

Contact Name: **Richard Hodges** Contact Phone: **(734) 955 - 2351**

Type of Work: **Heavy sewer cleaning and inspection on sanitary sewers ranging in size from 4" - 78", Siphon cleaning on lines ranging in size from 54" - 72".**

Year Work Performed: **2021** Work Amount ($): **$2,110,000.00**

1.7. Client's Name: **Major Contracting - DWS-965**

Address: **12222 Greenfield Rd., Detroit, MI 48227**

Contact Name: **Rohit Reddy** Contact Phone: **(518) 867 - 6336**

Type of Work: **Circular and Non-circular sewer inspection for lines ranging in size from 8" - 54" and above, Dye testing, sink hole investigation, tap cutting, catch basin cleaning.**

Year Work Performed: **2023 - Present** Work Amount ($): **$815,000.00**

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DETAILED SPECIFICATION
FOR
CONTRACTOR QUALIFICATIONS

2. Sewer CIPP Lining References

(Must be completed and submitted with Bid for consideration)

List sewer CIPP lining projects of sewers equal to or greater than 36 inches in diameter that total (together) over 10,000 lineal feet in northern states and/or Canada in the past 7 years and over 1,000,000 feet of lining in general over the past 7 years, and provide references. Also, provide safety record for the past 7 years as an attachment.

Firm's Name: SAK Construction, LLC

Role on Project: Sewer CIPP Lining Contractor

2.1. Client's Name: Citizens Energy Group / FY21 Priority 1 Pleasant Run Sewer Rehabilitation

Address: 2020 N Meridian Street, Indianapolis, IN 46202

Contact Name: Shari Foster Contact Phone: 317-429-3982

Type of Work: This project included the Cured-in-Place lining of 256 linear feet of 10-inch pipe, 930 LF of 12-inch pipe, 304 LF of 15-inch pipe, 887 LF of 18-inch pipe, 645 LF of 20-inch pipe, 1445 LF of 24-in pipe, 300 LF of 36-in pipe, 2486 LF of 42-inch pipe, 2581 LF of 48-inch pipe, 151 LF of 60-inch pipe, and 119 LF of 66-inch pipe. The project also includes portions of shotcrete on 42-inch, 60-inch, 66-inch, and 96-inch pipe. 737 VF of interior manhole lining, bypass flow management, and traffic control were also included.

Year Work Performed: April, 2022 (Completed) Work Amount ($): $8,504,041.14

2.2. Client's Name: Town of Griffith, IN / Sanitary Interceptor Sewer Improvements

Address: 111 North Broad Street, Giffith, IN 46319

Contact Name: Rob Konopasek Contact Phone: 219-924-3838

Type of Work: This project consisted of the rehabilitation of 13,090 linear feet of 36-inch & 42-inch diameter sewer lines utilizing the CIPP method.

Year Work Performed: 2019 (Completed) Work Amount ($): $3,992,949.25

2.3. Client's Name: City of Davenport, IA / Duck Creek South Interceptor Rehabilitation Project

Address: 226 West Fourth Street, Davenport, IA 52801

Contact Name: Brad Guy Contact Phone: 563-327-505

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Type of Work: This project consisted of the rehabilitation of 23,052 linear feet of sewer lines varying in size ranging from 24-inch to 48-inch in diameter utilizing the CIPP method. Of that 23,052 linear feet, 9,380 linear feet ranged from 36-inch to 48-inch in diameter

Year Work Performed: 2019 (Completed) Work Amount ($): $4,399,619.94

2.4. Client's Name: City of Decatur, IL / 7th Ward Sewer Rehabilitation

Address: 1 Gary K Anderson Plaza, Decatur, IL 62523

Contact Name: Paul Caswell Contact Phone: 217-424-2747

Type of Work: This project consisted of the rehabilitation of 23,288 linear feet of 18-inch to 84-inch diameter sewers utilizing the CIPP method. Of that 23,288 linear feet, 21,940 linear feet consisted of 37-inch to 84-inch diameter sewers.

Year Work Performed: 2018 (Completed) Work Amount ($): $7,675,591.93

Please see attachment labeled "Northern States Completed Project List Last 7 years" for a list of more projects that fit the requirements.

Please see attachment labeled "SAK Construction Safety Record Form"

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DETAILED SPECIFICATION
FOR
CONTRACTOR QUALIFICATIONS

3. Onsite Superintendent/Foreman
(Must be completed and submitted with Bid for consideration)

List name of onsite superintendent/foreman and list a minimum of 3 projects of similar complexity totaling 10,000 lineal feet of CIPP lining in sanitary sewers greater than 24 inches in diameter that they have supervised in the past 7 years and provide references.

Superintendent/Foreman Name: Lou Krch (see attached resume for further information)

3.1. Client's Name: City of Ann Arbor, MI / ITB No. 4693 - 2020 & 2021 Sewer Lining Project

Address: 301 East Huron Street, Ann Arbor, MI 48104

Contact Name: Igor Kotlyar Contact Phone: 734-794-6410

Type of Work: This project consists of sewer rehabilitation lining of 72,046 linear feet utilizing the CIPP method. The sizes ranging from 6-inch to 66-inch in diameter.

Year Work Performed: Project Ongoing 51% Completed Work Amount ($): $5,946,305.00

3.2. Client's Name: City of Ann Arbor, MI / ITB No. 4704 - 2022 Sewer Lining Project

Address: 301 East Huron Street, Ann Arbor, MI 48104

Contact Name: Igor Kotlyar Contact Phone: 734-794-6410

Type of Work: This project consists of sewer rehabilitation lining of 5,788 linear feet utilizing the CIPP method. The sizes ranging from 8-inch to 15-inch in diameter.

Year Work Performed: Project Ongoing 13% Completed Work Amount ($): $1,048,468.00

3.3. Client's Name: City of Toledo, OH / 2022 Sewer Lining

Address: One Government Center, Suite 2050, Toledo, OH 43604

Contact Name: Mike Elling Contact Phone: 419-936-2275

Type of Work: This project consists of sewer rehabilitation lining of 48, 250 linear feet

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utilizing the CIPP method. The sizes ranging from 8-inch to 36-inch in diameter.

Year Work Performed: Project Ongoing 85% Completed Work Amount ($): $3,493,490.00

3.4. Client's Name: Sub to Pipeline Management Company for the City of Auburn Hills

Address: 2673 E. Maple Road, Milford, MI 48381

Contact Name: David Lusky Contact Phone: 248-685-1500

Type of Work: This project consists of sewer rehabilitation lining of 3,403 linear feet utilizing the CIPP method. The sizes ranged from 10-inch to 12-inch in diameter.

Year Work Performed: Project Ongoing Work Amount ($): $151,935.00

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SAK CONSTRUCTION NORTHERN STATES COMPLETED PROJECTS LIST

VP Job #	Project Name	Owner's Contact Information	Address	Superintendent	Project Manager	Type	Completed Date	Completed Amount	Percent Complete	Footage Complete	Diameters
1000	**Village of Godfrey, IL** Tremont Subdivision Sewer CIPP Repair	Dennis Hartman; Village of Godfrey 618.466-4319	6810 Godfrey Road Godfrey, IL 62035	Jeff Hirtz	Tim Bussen	CIPP - IL	2/11/08	$49,588.00	100%	1612	8"
1001	**City of Carbondale, IL** Sanitary Sewer Rehab at Eason Dr.	Gary Belles; City of Carbondale P 618.549-5302	200 South Illinois Ave. Carbondale, IL 62902	Jeff Hirtz	Tim Bussen	CIPP - IL	1/11/08	$127,901.00	100%	3430	8", 10", 15"
1002	**City of Osawatomie, KS** 2007 Sanitary Sewer Improvements	Kris Bates; Sub to Bates Utility Co. P 636.939-5628	841 Westwood Industrial Park Dr. Weldon Springs, MO 63304	Jeff Hirtz	Tim Bussen	CIPP - KS	10/31/08	$834,552.00	100%	37242	8", 10", 12"
1004	**City of Mt. Olive, IL** Sewer Rehabilitation	Jesse Maynard, E.I.; City of Mount Olive P 618.596-3711	200 E. Main Street Mount Olive, IL 62069	Jeff Hirtz	Tim Bussen	CIPP - IL	7/21/08	$156,510.00	100%	4319	8", 10"
1005	**City of Lincoln/Lancaster County, NE** Rehab of Sanitary Sewers by Liner Insertion	Roger Krull; City of Lincoln, NE P 402/441-7985	555 South 10th Street Lincoln, NE 68508	Jeff Hirtz	Tim Bussen	CIPP - NE	6/30/08	$111,035.00	100%	4603	8", 12"
1006	**Buccaneer Bay SID No. 5; Cass County, NE** 2007 Sanitary Sewer Improvements	Lucas Billesbach, E.I.; JEO Consulting Group P 402/934-4850	19457 Treasure Island Road Plattsmouth, NE 68048	Jeff Hirtz	Tim Bussen	CIPP - NE	6/30/08	$88,934.00	100%	2896	8"
1007	**City of Davenport, IA** 2008 Sanitary Sewer Lining Program	Brian Schmidt; City of Davenport, IA P 563/327-5156	226 W. 4th Street Davenport, IA 52801	Jeff Hirtz	Tim Bussen	CIPP - IA	9/30/08	$456,142.00	100%	17408	8", 10", 12", 14"
1011	**City of Pipestone, MN** Pipestone Sanitary Sewer Lining 2008	Scot Leddy, P.E.; Banner Associates, Inc. P 605/692-6342	119 2nd Ave. SW Pipestone, MN 56164	Jeff Hirtz	Tim Bussen	CIPP - MN	9/30/08	$262,452.00	100%	10402	8", 10"
1014	**City of St. Paul, MN** Biglow/Bush Sewer Rehabilitation	Patrick Lowry; City of St. Paul P 651/266-6251 F 651/298-5621	25 W. 4th St. St. Paul, MN 55102	Jeff Hirtz	Tim Bussen	CIPP - MN	6/30/09	$1,334,314.00	100%	34711	8", 9", 10", 12", 15", 18", 20", 21", 24", 36"
1015	**City of Waterloo, IL** Waterloo 24" Sewer Rehabilitation	Jesse Maynard, E.I.; HMG Engineers P 618.596-3711	City of Waterloo, IL 100 W. 4th Street Waterloo, IL 62298	Jeff Hirtz	Tim Bussen	CIPP - IL	9/26/08	$23,450.00	100%	370	8", 24"
1016	**City of Waverly, NE** 2008 Sanitary Sewer Sliplining Improvements	Justin Stine; JEO Consulting Group P 402/435-4110	14130 Lancashire Waverly, NE 68462	Jeff Hirtz	Tim Bussen	CIPP - NE	10/17/08	$88,948.00	100%	3176	8"
1021	**City of Baldwin, IL** Sanitary Sewer Coll. System Rehab	Travis Liefer; Rhutasel and Associates P 618.532-1992 F 618.532-1993	212 W. Elm Street Baldwin, IL 62217	Jeff Hirtz	Tim Bussen	CIPP - IL	2/10/10	$249,940.00	100%	11321	8"
1027	**City of St. Paul, MN** Euclid/Edgewater Sewer Lining	Patrick Lowry; City of St. Paul P 651.266.6251 F 651.298.5621	25 W. 4th St. St. Paul, MN 55102	Jeff Hirtz	Tim Bussen	CIPP - MN	10/31/09	$1,328,571.00	100%	32260	8", 9", 10", 12", 15", 18", 20", 21", 24", 27", 33", 48"
1035	**City of El Dorado, KS** CIPP Rehabilitation	Kurt Bookout; City of El Dorado, KS P 316.321-9100	390 East Central Eldorado, KS 67042	Danny Brown	Tim Bussen	CIPP - KS	3/20/09	$177,783.00	100%	7059	6", 8", 15"
1046	**City of Ottawa, KS**	City of Ottawa	City Hall 2nd Floor 101 S. Hickory Ottawa, KS 66067	Danny Brown	Tim Bussen	CIPP - KS	5/29/09	$164,185.95	100%	2272	15", 18", 21"
1050	**Olathe, KS - 2009 Sanitary Sewer Maintenance** P.N. 1-C-075-09, Contract 1	Ric Gere; Olathe, KS P 913.971.9119 F 913.971.9238	1385 S. Robinson Dr. Olathe, KS 66061	Danny Brown	Tim Bussen	CIPP - KS	8/31/09	$263,304.00	100%	9914	8", 12"
1051	**Unified Government of Wyandotte Co., KS** NSRP Trenchless Sewer Repairs	John Menkhus; Unified Govt. of Wyandotte Co., KS P 913.573.5700 F 913.573.5435	701 N. 7th St. Kansas City, KS 66101	Danny Brown	Tim Bussen	CIPP - KS	1/29/10	$106,624.00	100%	478	8", 12", 15", 36"
1056	**Village of Brighton, IL** 8" CIPP Sewer Rehab	Tim Ferguson; Village of Brighton P 618.372-8860 F 618.372-7068	206 South Main Street Brighton, IL 62012	Jeff Hirtz	Tim Bussen	CIPP - IL	6/19/09	$25,255.00	100%	925	8"
1063	**Marysville, KS** Sanitary Sewer Rehab Project 2009	Rick Shain, City Administrator; Marysville, KS P 785/562-5331	City Hall Marysville, KS 66508	Danny Brown	Tim Bussen	CIPP - KS	9/30/09	$57,696.30	100%	2514	8"
1066	**BNSF Railroad, Newton, KS** sub to Kissick Construction Co.	Jim Kissick; Kissick Construction Company P 816.363-5530 F 816.523-1557	8131 Indiana Ave. Kansas City, MO 64132	Danny Brown	Tim Bussen	CIPP - KS	8/18/09	$59,105.00	100%	483	6", 8"
1069	**City of Lincoln/Lancaster County, NE** 2008/09 Rehabilitation of Sanitary Sewer by Liner Insertion	Brian Kramer; City of Lincoln, NE P 402/441-7985 F 402/441-8609	555 South 10th St., Room 203 Lincoln, NE 68508	Mike Stubbs	Tim Bussen	CIPP - NE	8/31/10	$402,147.08	100%	16926	8", 10", 12"
1074	**City of Vermillion, SD** Vermillion Sanitary Sewer Improvements	Scott Mohror, P.E.; Banner Associates, Inc. P 605/692-6342 F 605/677-5461	25 Center Street Vermillion, SD 57069	Danny Brown	Tim Bussen	CIPP - SD	7/23/10	$962,395.34	100%	17968	8", 10", 12", 15", 18"
1075	**Village of Albers, IL** Sewer Lining	Jesse Maynard, E.I., HMG Engineers P 618.596-3711	206 W. Dwight Street Albers, IL 62215	Jeff Hirtz	Tim Bussen	CIPP - IL	12/9/09	$36,373.50	100%	1580	8"

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SAK CONSTRUCTION COMPLETED PROJECTS LIST

VP Job #	Project Name	Owner's Contact Information	Address	Superintendent	Project Manager	Type	Completed Date	Completed Amount	Percent Complete	Footage Complete	Diameters
1076	**City of Spring Hill, KS** Sanitary Sewer Improvements	Julie Parker, Ponzer-Youngquist Engineers P 913.782-0541 F 913.782-0109	401 N. Madison Spring Hill, KS 66083-0424	Danny Brown	Tim Bussen	CIPP - KS	12/15/09	$145,295.00	100%	5072	8", 10"
1081	**City of Pittsburg, KS** Sanitary Sewer Line Repair Project 1	Bruce D. Remsberg, P.E.; Professional Engineering Consultants, P.A. P 620.235-0195 F 620.235-1011	201 W. 4th Pittsburg, KS 66762	Danny Brown	Tim Bussen	CIPP - KS	6/11/10	$645,903.88	100%	21785	8", 10", 12", 15", 18"
1082	**City of Shawnee, KS** Storm Sewer Rehab	Kenny Khongmaly, City of Shawnee, KS P 913.742-6232	11110 Johnson Drive Shawnee, KS 66203	Danny Brown	Tim Bussen	CIPP - KS	11/20/09	$23,935.00	100%	165	30"
1085	**Galesburg, IL** Sewer Improvements	George Soper; Bruner, Cooper & Zuck P 309/343-9282 F 309/343-5232	2700 West Main Street Galesburg, IL 64401	Jeff Hirtz	Tim Bussen	CIPP - IL	4/22/10	$249,054.25	100%	3471	10", 18", 24", 27"
1091	**Unified Government of Wyandotte Co., KS** 2009 Trenchless Rehab	John Menkhus; Unified Govt. of Wyandotte Co., KS P 913.573-5700 F 913.573-5435	701 N. 7th St. Kansas City, KS 66101	Danny Brown	Tim Bussen	CIPP - KS	8/30/10	$274,471.65	100%	9791	8". 10", 12", 15", 24"
1127	**Octavio Sosa, Kansas City, KS** Parking Lot Development Project 1414 Central Ave., Kansas City, KS 66102	Jose Angel Martinez, Architect P 913.825-3700	10816 Beverly Street Overland Park, KS 66211	Danny Brown	Tim Bussen	CIPP - KS	4/5/10	$9,975.00	100%	214	10"
1131	**City of Madison, IL** Emergency 24" CIPP Meechum Crossing	Steve Osborn; Juneau Associates, Inc. P 618.877-1400	2100 State Street Granite City, IL 62040	Jason Laney	Tim Bussen	CIPP - IL	5/15/10	$32,731.40	100%	192	24"
1135	**Urbana & Champaign Sanitary District (IL)** 2011 Interceptor Rehabilitation	Christine Childress; Sodemann & Associates P 217.352-7688 F 217.367-2603	340 N. Neil St. Champaign, IL 61820	Matt Hirtz	Tim Bussen	CIPP - IL	12/5/10	$520,801.90	100%	6492	15", 18"
1145	**Kansas Dept. of Health & Environment (KS)** Emergency CIPP 8-inch Sanitary Sewer Lining	Randy Carlump Sumon; KS Dept. of Health & Environment 785/296-1678	1000 SW Jackson Street, Suite 410 Topeka, KS 66612-1367	Danny Brown	Tim Bussen	CIPP - KS	7/21/10	$27,166.75	100%	777	8"
1146	**2010 NSRP Trenchless Emergency** Kansas City, KS	Unified Gov Wyandotte County P 913.573.5440 F 913.573.5444	701 N. 7th St. Kansas City, KS 66101	Danny Brown	Tim Bussen	CIPP - KS	8/27/10	$208,732.25	100%	5414	8", 10", 12", 15", 18", 24", 36"
1159	**CIPP Storm Sewer Lining** Fairway, KS	Bill Stogsdill, City of Fairway P 913.262.0350	5505 Buena Vista Fairway, KS 66205	Danny Brown	Tim Bussen	CIPP - KS	9/3/10	$14,668.00	100%	200	18"
1177	**Carlyle Lake Replacement** Carlyle Lake, IL	Mike Coffman, Sub to Cherokee General Corporation P: 253.344.5300 F 253.344.5301	33810 Weyerhaeuser Way S., Suite 100 Federal Way, WA 98001	Matt Hirtz	Tim Bussen	CIPP - IL	11/5/10	$21,500.00	100%	100	8"
1187	**Clay City, IL** Clay City 6th Street Sanitary	Village of Clay City	City Hall 318 S. Walnut St., Clay City, IL 62824	Matt Hirtz	Tim Bussen	CIPP - IL	2/4/11	$14,357.50	100%	620	8"
1237	**Olathe, KS** CIPP Lining Sewer	Ric Gere, City of Olathe	Municipal Services/Utilities 1415 S. Robinson Drive Olathe, KS 66051	Danny Brown	Tim Bussen	CIPP - KS	4/22/11	$8,912.50	100%	155	8"
1244	**Pittsburg, KS** Miller's	Jim Askins, Miller's Professional Imaging	610 E. Jefferson Pittsburg, KS 66762	Danny Brown	Tim Bussen	CIPP - KS	5/20/11	$13,500.00	100%	290	8"
10025	**City of Granite City, IL** Nameoki Area Manhole & Sewer Rehab	Steve Osborn; Juneau Associates, Inc P 618.877-1400	City of Granite City, IL	Jeff Hirtz/Jason Laney	Tim Bussen	CIPP - IL	12/30/11	$1,643,944.08	100%	23104	8", 10", 12", 18", 21", 30", 36"
10048	**Johnson County (KS) Wastewater** CIPP Term & Supply Contract	Joe Barnes; Johnson Co. Wastewater P 913.715-8636 F 913.715-8501	11811 S. Sunset Drive, #2500 Olathe, KS 66061	Danny Brown	Tim Bussen	CIPP - KS	1/30/10	$641,431.00	100%	22181	8", 12", 15", 21"
10059	**City of St. Paul, MN** Greenbrier/Lawson CIPP Sewer Lining Project	Patrick Lowry; City of St. Paul P 651/266-6251 F 651/298-5621	25 W. 4th St. St. Paul, MN 55102	Jason Laney	Tim Bussen	CIPP - MN	7/31/10	$1,382,882.67	100%	6859	27", 30", 33", 36", 39", 45", 51", 56", 57", 74"
10136	**Baxmeyer Construction, Inc.** I.D.O.T. Contract #76633 Madison County, IL	Dave Baxmeyer; Baxmeyer Construction, Inc. P 618.939-3000 ext. 19 F 618.939-4299	1034 Floraville Rd. Waterloo, IL 62298	Jeff Hirtz	Tim Bussen	CIPP - IL	1/23/11	$272,475.00	100%	2203	12", 18", 24", 36"
10157	**Granite City, IL** 2010 Sewer Repairs	Dave Baxmeyer; Baxmeyer Construction, Inc. P 618.939.3000 ext. 19 F 618.939.4299	1034 Floraville Rd. Waterloo, IL 62298	Jeff Hirtz	Tim Bussen	CIPP - IL	3/24/11	$41,012.50	100%	738	12", 24"
10168	**Sauget, IL** Central Ethanol CIPP	Weis Design Group P 636.207.0832 F 636.207.0328	16296 Westwoods Business Dr. Ellisville, MO 63021	Jason Laney	Tim Bussen	CIPP - IL	10/22/10	$181,843.20	100%	680	36"
10172	**Johnson County, KS** SS Line Rehab Auth 14	Johnson County Wastewater P 913.715.8500 F 913.715.8501	11811 S. Sunset Drive, #2500 Olathe, KS 66061	Danny Brown	Tim Bussen	CIPP - KS	10/4/11	$455,461.62	100%	22472	8", 12", 15", 21"
10179	**Humboldt, IA** Sliplining	Humboldt IA, City of P 515.332.3435 F 515.332.1453	PO Box 529 Humboldt, IA 50548-0529	Chad Rusher	Tim Bussen	CIPP - IA	5/23/11	$165,325.00	100%	3400	12", 15"

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SAK CONSTRUCTION COMPLETED PROJECTS LIST

VP Job #	Project Name	Owner's Contact Information	Address	Superintendent	Project Manager	Type	Completed Date	Completed Amount	Percent Complete	Footage Complete	Diameters
10192	**Marshalltown, IA** 2009 Sanitary Sewer Rehab Project	Lynn E. Couch, City of Marshalltown IA P 641.754.5709 F 641.754.5741	1001 Woodland St. Marshalltown, IA 50158-1810	Chad Rusher	Tim Bussen	CIPP - IA	7/14/12	$2,978,351.16	100%	113107	6", 8", 10", 12", 15", 18", 21", 24", 33"
10200	**Paola, KS** Tank Mgmt, PO 12411, Zarco 66, 1005 Pearle	Katy Field, Tank Management Services P 785.233.1414	PO Box 678 Topeka, KS 66601-0678	Danny Brown	Tim Bussen	CIPP - KS	2/28/11	$12,590.47	100%	265	8"
11006	**Champaign, IL** 2010 Concrete Sanitary Sewer Lining	W. Ronald White, P.E., Champaign, City of P 217.403.4710 F 217.403.4755	702 Edgebrook Dr. Champaign, IL 61820	Jeff Hirtz	Tim Bussen	CIPP - IL	9/8/11	$744,472.45	100%	37511	6", 8", 10", 12"
11007	**Bricelyn, MN** Sanitary Sewer Rehabilitation	Kathy Ehlert, Bricelyn, City of P 507.653.4367 F 507.653.4369	PO Box 338 Bricelyn, MN 56014	Ricky Laws	Tim Bussen	CIPP - MN	8/31/11	$338,271.35	100%	13333	8", 10", 12"
11023	**Bloomingdale, IL** 2011 Sanitary Sewer Lining Program	J.T. Monkemeyer, Village of Bloomingdale, IL P 630.893.7000	201 S Bloomingdale Rd. Bloomingdale, IL 60108-1487	Jeff Hirtz	Tim Bussen	CIPP - IL	4/27/11	$84,189.00	100%	2934	8"
11028	**Greater Peoria, IL** Repair of City of Peoria Design Area 1	James Sloan; Greater Peoria Sanitary District P 309.637.3511 F 309.637.6614	2322 South Darst St. Peoria, IL 61607-2093	Jeff Hirtz	Tim Bussen	CIPP - IL	10/31/11	$568,846.90	100%	13714	8", 10", 12", 15", 18", 24"
11032	**Wathena, KS** CIPP Sewer Lining	John Hontz, City of Wathena, KS P 785.989.4711 F 785.989.4830	206 St. Joseph St. Wathena, KS 66090	Danny Brown	Tim Bussen	CIPP - KS	5/6/11	$18,081.00	100%	660	8"
11034	**Manhattan, KS** 2011 CIPP Project No. SS1105	Bruce Snead, City of Manhattan KS P 785.587.2415 F 785.587.2416	1101 Poyntz Ave. Manhattan, KS 66502	Ricky Laws	Tim Bussen	CIPP - KS	8/15/11	$346,114.50	100%	18898	8", 10"
11037	**Humboldt, IA** W & H Cooperative - 18 Inch HDPE	Greg Emick, W & H Cooperative Oil Co. P 515.332.2782	407 13th Street North Humboldt, IA 50548	Chad Rusher	Tim Bussen	CIPP - IA	5/17/11	$38,893.00	100%	320	18"
11057	**Wyandotte County, KS** Wiedenmann, 14th St & Metropolitan Av	Glen Barge; Wiedenmann & Godfrey P 816.322.1125	950 N Scott Ave Belton, MO 64012	Danny Brown	Tim Bussen	CIPP - KS	5/17/11	$70,375.00	100%	175	42"
11058	**Johnson County, KS** Authorization 16 Lke Quivira	Johnson County Wastewater P 913.715.8500 F 913.715.8501	11811 S. Sunset Drive, #2500 Olathe, KS 66061	Danny Brown	Tim Bussen	CIPP - KS	6/27/12	$184,737.10	100%	8818	8"
11072	**Wyandotte County, KS** 2011 Sanitary Sewer Trenchless Repair	William Heatherman, Unified Governmnt of Wyandotte P 913.573-5700 F 913.573-5727	701 N. 7th St. Kansas City, KS 66101	Danny Brown	Dan Swidrak	CIPP - KS	1/7/13	$565,787.75	100%	12671	8", 10", 12", 15", 18", 24", 27", 36"
11086	**Flagg Creek, IL - 2011-2014 Sewer Lining Program** Burr Ridge, IL - 3 yr Term Contract	Terry ENgle, Flagg Creek Water Reclamation District P 630/323-3299 F 630/323-4230	7001 N Frontage Road Burr Ridge, IL 60527-5788	Jason Laney	Tim Bussen	CIPP - IL	9/30/14	$1,139,452.99	100%	20952	8", 12", 15", 18", 20", 22", 24", 30"
11089	**JCWW, KS - Tomahawk** 54 Inch Sliplining and 66" CIPP	John O'Neil, Johnson County Wastewater P 913.715-8500 F 913.715-8501	11811 S. Sunset Drive, #2500 Olathe, KS 66061	Danny Brown	Tim Bussen	CIPP - IA	7/29/11	$293,604.89	100%	45	54", 66"
11090	**Des Moines, IA** 2011 Critical Sanitary Sewer 07-2011-009	Matt Radermacher, City of Des Moines P 515.283-4920 F 515.283-4112	400 Robert D Ray Dr. Des Moines, IA 50309-1891	Danny Brown	Tim Bussen	CIPP - IA	12/18/13	$3,717,147.90	100%	80854	8", 10", 12", 15", 18", 21", 30"
11108	**Lenexa, KS** 2011 Pipe Replacement	Mike Martin, Sub to Freeman Concrete Construction P 913.825-0744	8357 Monticello Road Shawnee, KS 66227	Danny Brown	Tim Bussen	CIPP - KS	11/21/11	$31,293.50	100%	199	24"
11113	**Effingham, IL** Brick Sewer Rehab Mulberry St	Michelle Wilkins, City of Effingham - Engineering P 217.342-5303 F 217.342-2746	201 East Jefferson PO Box 648 Effingham, IL 62401	Jason Laney	Tim Bussen	CIPP - IL	3/23/12	$1,128,065.95	100%	3790	36", 47", 48"
11114	**Champaign, IL** Neil Street - Sarus Oil, LLC	Dr. Sohail Chaudry, Sub to Sarus Oil, LLC P 217.892-7913	4411 Trostshire Circle Champaign, IL 61822	Danny Brown	Tim Bussen	CIPP - IL	9/13/11	$25,294.00	100%	350	15"
11116	**Johnson County, KS** New Authorization 09-01-11	John O'Neil, Johnson County Wastewater P 913.715-8500 F 913.715-8501	1181 S. Sunset Drive, Suite 2500 Olathe, KS 66061	Danny Brown	Tom Qualls	CIPP - KS	6/28/12	$497,505.88	100%	21711	8", 10", 15", 18", 21"
11117	**Johnson County, KS** CMSD No. 13 NeLump Sumon WWTP	Don Godfrey, Sub to Wiedenmann & Godfrey P 816.322-1125	950 North Scott Belton, MO 64021	Danny Brown	Tim Bussen	CIPP - KS	8/29/12	$634,140.45	100%	29589	8", 12"
11121	**Carrollton, IL** Wastewater Collection System Improvements	Bill Sleeman, City of Carrollton, IL P 217.245.4146	621 West South Main St. Carrollton, IL 62016	John Price	Dan Swidrak	CIPP - IL	5/10/13	$2,044,566.92	100%	31247	8", 10"
11124	**Sioux Falls, SD** Western Interceptor Relief Trunk Sewer	Barbara Suckstorf, City of Sioux Falls P 605/367-8600 F 605/367-4605	PO Box 7402 Sioux FalLump Sum, SD 57117	Jason Laney	Tom Qualls	CIPP - SD	7/25/12	$1,983,340.37	100%	6661	30", 36"
11125	**Naperville, IL** 8" Sanitary Sewer CIPP Contract 12-076	Douglas Krieger, City of Naperville P 630/420-6111	400 South Eagle Street PO Box 3020 Naperville, IL 60566	John Price	Dan Swidrak	CIPP - IL	4/30/12	$339,337.05	100%	11513	8"

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SAK CONSTRUCTION COMPLETED PROJECTS LIST

VP Job #	Project Name	Owner's Contact Information	Address	Superintendent	Project Manager	Type	Completed Date	Completed Amount	Percent Complete	Footage Complete	Diameters
11149	**Lenexa, KS** Lackman Tributary Stormwater	Vince Freemyer, Sub to VF Anderson Builders, LLC P 816.935-9852	15707 East 215th Street Peculiar, MO 64078	Danny Brown	Tom Qualls	CIPP - KS	5/10/12	$258,323.36	100%	3349	15", 18", 21", 24", 42"
11150	**Granite City, IL** Sewer Main Lining Contract B	Ed Hagnauer, Granite City, City of P 618.452-6218 F 618.452-6246	2000 Edison Avenue Granite City, IL 62040	Jeff Hirtz	Tim Bussen	CIPP - IL	6/1/13	$2,375,697.64	100%	702	42"
11152	**Des Moines, IA - 2012** Sewer Lining Program 07-2012-003	Matt Radermacher, City of Des Moines P 515.283-4076 F 515.283-4112 mkradermacher@dmgov.org	Engineering Department 400 Robert D. Ray Dr. Des Moines, IA 50309	Jeff Hirtz	Tim Bussen	CIPP - IA	8/22/13	$2,928,702.73	100%	17744	8", 10", 12", 15", 18", 24", 30", 48", 60"
11165	**Johnson County, KS** Auth 18, I-35	Patrick Beane, Johnson County Wastewater P 913.715-8500 F 913.715-8501	1181 S. Sunset Drive, Suite 2500 Olathe, KS 66061	Danny Brown	Tim Bussen	CIPP - KS	12/9/11	$92,658.00	100%	540	21"
11173	**Central City, IL** Trenchless SS Repair 2011-2012	Ron Bradham, Village of Central City P 618.532-2123 F 618.532-9326	141 N. Harrison St. Central City, IL 62801	Matt Hirtz	Tim Bussen	CIPP - IL	2/7/12	$37,565.00	100%	475	8"
11182	**Lenexa, KS** 87 St & Pflumm Rd Stormwater	Steve Miles, Sub to Miles Excavating, Inc. P 913.724-1934	15063 State Avenue Basehor, KS 66007	Danny Brown	Dan Swidrak	CIPP - KS	12/5/12	$233,101.50	100%	1979	15", 18", 24", 30", 36"
12035	**Palatine, IL** 2012 Sewer Rehab Program DPW-1201	Matthew Barry, Village of Palatine P 847/705-5200 F 847/358-4242	Department of Public Works 148 West Illinois Ave Palatine, IL 60067	Jason Laney	Tim Bussen	CIPP - IL	8/15/12	$345,700.30	100%	11319	8", 10", 12"
12036	**New Athens, IL** Hanft St Sanitary Sewer Liner Pipe	Tyler Liefer, Village of New Athens P 618.475-2144 F 618.475-9269	905 Spotsylvania Street New Athens, IL 62264	Jason Laney	Tim Bussen	CIPP - IL	6/18/12	$30,382.50	100%	1267	18"
12050.20	**Johnson County, KS** Auth 20	John O'Neil, Johnson County Wastewater P 913.715-8500 F 913.715-8501	1181 S. Sunset Drive, Suite 2500 Olathe, KS 66061	Danny Brown	Dan Swidrak	CIPP - KS	7/2/13	$942,846.25	100%	39816	8", 10", 12", 15"
12058	**West Des Moines, IA** 2012 Sewer Lining Program	Clint Carpenter, City of West Des Moines P 515.222-3480 F 515.222-3478	Department of Public Works 560 S. 16th Street West Des Moines, IA 50265	Jeff Hirtz	Tim Bussen	CIPP - IA	11/13/12	$671,883.40	100%	28228	8", 10", 12", 15"
12078	**Olathe, KS** 2012 CIPP, P.N. 1-R-001-12	Ric Gere, Olathe KS, City of P 913.971-9311	PO Box 768 Olathe, KS 66051	Danny Brown	Dan Swidrak	CIPP - KS	9/20/12	$296,336.60	100%	11864	8", 12", 24", 28"
12104	**Belleville, IL** Our Lady of the Snows 24" Storm Rehab	National Shrine Our Lady of the Snows P 618.397-6700	442 S DeMazenod Dr Belleville, IL 62223	James Farnsworth (Foreman)	Tim Bussen	CIPP - IL	3/20/13	$49,775.15	100%	557	24"
12106	**Waverly, IL** 10" CIPP	Steve Edwards, City of Waverly P 217.435-4611	Public Works 171 N. Pearl St. Waverly, IL 62692	John Price (Foreman)	Dan Swidrak	CIPP - IL	10/18/12	$21,864.80	100%	604	10"
12108	**Jackson, MN** Sanitary Sewer Rehab 2012, BMI F 13.014573	Gregory Mitchell, P.E., City of Jackson P 507/847-4410 F 507/847-5586	80 West Ashley Street Jackson, MN 56143	Josh Grote (Foreman)	Dan Swidrak	CIPP - MN	7/15/14	$1,075,274.20	100%	43723	6", 8", 12", 18", 21"
12110	**Carrollton, IL** Wastewater Collection System Imp Phase II	William J. Sleeman, P.E., City of Carrollton P 217.245-4146 F 217.245-4149	City Hall 621 West South Main Street Carrollton, IL 62016	Jeff Hirtz	Dan Swidrak	CIPP - IL	3/15/13	$674,534.50	100%	6523	8", 10", 12", 16"
12115	**Johnston, IA** Camp Dodge, IA Army Ntl Guard	Matt Van Hauen, Sub to Raccoon Valley Contractors, LLC P 515.987-8754	520 SE Prairie Park Lane Naukee, IA 50263	Jeff Hirtz	Tim Bussen	CIPP - IA	10/16/12	$24,315.15	100%	937	8"
12120	**Brighton, IL** Sanitary Sewer Rehab Georgene Acre	Greg Warren, Sub to G.L Warren Construction, Inc. P 618.692-9707 F 618.692-7660	4795 Section Line Road Edwardsville, IL 62025	Jason Laney	Dan Swidrak	CIPP - IL	11/26/12	$63,210.25	100%	2363	8"
12121	**Callender, IA** 2012 Sanitary Sewer Pipe Rehab	City of Callender, IA P 515.548-3859	415 Thomas Street Callender, IA 50523	Josh Grote (Foreman)	Tim Bussen	CIPP - IA	11/8/12	$88,737.50	100%	3775	8"
12129	**Caseyville, IL** Fall 2012 Sewer Rehab	Bruce Canty, Caseyville Township P 618.398-6248 F 618.398-8970	10001 Bunkum Road Fairview Heights, IL 62208	Matt Hirtz	Tim Bussen	CIPP - IL	11/6/12	$121,299.00	100%	4230	8"
12132	**Vincent, IA** 8" CIPP	John Fransen, City of Vincent P 515.356-7365 F 515.356-2199	Po Box 298 Vincent, IA 50594	Josh Grote	Tim Bussen	CIPP - IA	11/14/12	$18,900.00	100%	360	8"
12133	**Spring Hill, KS** Sanitary Sewer Improvements CDBG #2012-15	Mark Squire, City of Spring Hill, KS P 913.592-3664 F 913.592-5040	401 N. Madison Spring Hill, KS 66083-0424	Danny Brown	Dan Swidrak	CIPP - KS	11/26/12	$100,270.40	100%	2752	8"
12136	**Shawnee, KS** 3375, 2012 Stormwater Pipe, Small Dia	Doug WesseLump Sumchmidt, P.E., City of Shawnee P 913.742-6012	11110 Johnson Drive Shawnee, KS 66203	Jason Laney	Dan Swidrak	CIPP - KS	4/4/13	$180,838.25	100%	1137	12", 15", 18", 20", 24", 30"
12138	**Shawnee, KS** 3380, 2012 Stormwater Pipe, Brockway	Doug WesseLump Sumchmidt, P.E., City of Shawnee P 913.742-6012	11110 Johnson Drive Shawnee, KS 66203	Danny Brown	Dan Swidrak	CIPP - KS	4/4/13	$102,039.00	100%	339	48"

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12139	**Fort Scott, KS** Sanitary Sewer Relining Project	Richard Cook, City of Fort Scott P 620.223-0550 F 620.223-8100	123 S. Main Street Fort Scott, KS 66701	Danny Brown	Dan Swidrak	CIPP - KS	11/5/12	$26,059.90	100%	701	10"
12140	**Champaign, IL** 2012 Sewer Lining	Erich Borgers, City of Champaign P 217.403-4710	102 North Neil Street Champaign, IL 61820	Jeff Hirtz	Dan Swidrak	CIPP - IL	3/13/13	$549,934.45	100%	19637	8", 10", 12", 15", 18", 24"
12147	**Leawood, KS** 2012 Arterial Mill & Overlay Program	Joseph Fahey Sub to J.M. Fahey Construction Company P 816.763-3010 F 816.763-3862	408 High Grove Road Grandview, MO 64030	Danny Brown	Dan Swidrak	CIPP - KS	11/15/12	$38,249.50	100%	456	18", 24"
12154	**Leon, KS** CIPP Sanitary Sewer Rehab 11-PF-021	Harlan D. Foraker, P.E., City of Leon P 316.262-8808 F 316.262-1669	111 South Main Leon, KS 67074	Danny Brown	Dan Swidrak	CIPP - KS	7/22/13	$1,024,598.00	100%	20955	8"
12165	**Johnston, IA** NW 54th Ct Storm Sewer Improv	Rhonda Burkhardt, Sub to Underground Co. P 515.282-8455 F 515.282-8465	12245 Dakota Street Carlisle, IA 50047	Josh Grote	Dan Swidrak	CIPP - IA	12/4/12	$47,568.50	100%	179	24"
12170	**Springfield, I** 2012 Sanitary Sewer Lining Project	Greg Humphrey, Springfield Metro Sanitary District P 217.528-0491 F 217.528-0497	3000 North 8th Street Springfield, IL 62707	Matt Hirtz	Dan Swidrak	CIPP - IL	5/7/13	$563,821.00	100%	18289	8", 10", 12", 15"
12171	**Collinsville, IL** 8" CIPP, Vandalia, Clay St, Madison St	Eric Nagel, City of Collinsville P 618.346-5200	Waste Water Dept. 300 Simple Street Collinsville, IL 62234	Matt Hirtz	Tim Bussen	CIPP - IL	12/15/12	$19,570.00	100%	738	8"
12172	**Grand Island, NE** 2012-S-4, South & West Interceptor Sewer	Bren Juarez, City of Grand Island P 770.535.8263	City Hall 100 East First Street PO Box 1968 Grand Island, NE 68802	Danny Brown	Dan Swidrak	CIPP - NE	5/16/13	$730,382.00	100%	4433	27", 30", 36"
12192	**Wyandotte County, KS** #6304, 2012 Sanitary Sewer Trenchless	Bill Heatherman, Unified Gov Wyandotte County P 913.573.5440 F 913.573.5444	701 N. 7th St. Kansas City, KS 66101	Danny Brown	Dan Swidrak	CIPP - KS	6/28/13	$744,810.15	100%	14235	8", 10", 12", 15", 24", 36"
13002	**Johnston, IA** Camp Dodge SS Repairs, IA Army NG, Raccoon Va	Matt Van Hauen, Sub to Raccoon Valley Contractors, LLC P 515.987.8754	PO Bo 549 Waukee, IA 50263	Alan Stuhlsatz	Tim Bussen	CIPP - IA	5/23/13	$115,461.80	100%	3345	8", 12", 15", 18"
13004	**Wyandotte County, KS** Wiedenmann, 328, N Jersey Creek	Don Godfrey, Sub to Wiedenmann & Godfrey Construction, Inc. P 816.322.1225 F 816.322.1126	950 N. Scott Ave. Belton, MO 64012	Jason Laney	Dan Swidrak	CIPP - KS	7/10/13	$635,159.25	100%	19749	8", 10", 12", 15", 18", 21", 36"
13007	**Roseville, MN** SS-13-06,2013 Sanitary Sewer Main CIPP Proj	Kristine Giga, P.E., City of Rosville P 651.792.7048	2660 Civic Center Drive Roseville, MN 55113	Josh Grote (Foreman)	Dan Swidrak	CIPP - MN	8/10/13	$1,136,231.50	100%	39827	8", 10", 12", 15", 18", 21", 24"
13012	**Balaton, MN** 2013 Sanitary Sewer Rehab	Mike Carr, City of Balaton P 712.472.2531	1302 South Union Street Rock Rapids, IA 51246	Josh Grote (Foreman)	Dan Swidrak	CIPP - MN	9/24/13	$85,464.60	100%	3542	8"
13013	**Macomb, IL** PW 13-01, Sanitary Sewer Lining	Jason Bainter, City of Macomb P 309.833.2575 F 309.836.1090	PO Box 377 Macomb, IL 61455	James Farnsworth (Foreman)	Tim Bussen	CIPP - IL	3/18/13	$52,211.10	100%	1642	8", 10"
13016	**Appleton, WI** Unit O-13, Sanitary & Storm Sewer (CIPP)	Chad Weyenberg, City of Appleton P 920.832.6443 F 920.835.5823	100 North Appleton Street Appleton, WI 54911	Jason Laney	Dan Swidrak	CIPP - WI	7/25/13	$834,003.50	100%	5782	8", 10", 12", 15", 30", 42"
13020	**Lambs Grove, IA** 2013 Lambs Grove Wastewater Collection	Steve Klocke, City of Lambs Grove P 515.964.2020 F 515.964.7938	1351 Iowa Speedway Dr. Newton, IA 50208	Jeff Hirtz	Travis Jerrels	CIPP - IA	11/15/16	$343,634.06	100%	8020	6", 8:
13022	**Council Bluffs, IA** FY 13-24 Sewer Rehab-B.A.D. Line	Terry Morrison, P.E.,City of Council Bluffs P 712.256.5248	Public Works Department 209 Pearl Street Council Bluffs, IA 51503	Danny Brown	Dan Swidrak	CIPP - IA	8/29/13	$191,626.00	100%	624	36"
13024	**Topeka, KS** ERMI, 8" Sewer 4601 SW Topeka Blvd, KDHE	Michael A. Jennings, R.G., Sub to Environmental Remediation & Monitoring, Inc. P 785.484.2015	PO Box 321 Meriden, KS 66512	Danny Brown	Dan Swidrak	CIPP - KS	3/15/13	$24,345.00	100%	491	8"
13028	**Montezuma, IA** Sanitary Sewer Lining	City of Montezuma	501 E. Main Montezuma, IA 50171	Alan Stuhlsatz	Tim Bussen	CIPP - IA	5/16/13	$43,982.40	100%	952	15"
13031	**Glenwood, IA** 2013 CIPP Sanitary Sewer	Jim Olmsted Olmsted & Perry Consulting Engineers, Inc. (Engineer) P 402/399-8552 F 405/399-9852	10730 Pacific Street, Suite 232 Omaha, NE 68114	Alan Stuhlsatz	Tim Bussen	CIPP - IA	5/31/13	$165,229.65	100%	6526	8"
13033	**Moline, IL** 1183, 2013 Joint Sewer Lining	Scott Hinton, P.E., City of Moline P 309.524.2350	3635 4th Avenue Moline, IL 61265	John Price (Foreman)	Dan Swidrak	CIPP - IL	11/21/13	$93,853.60	100%	3898	8", 10", 12", 24"
13036	**Evanston, IL** 13-09, 2013 CIPP Sewer Rehab Contract A	Lara N. Biggs, P.E., City of Evanston P 847.866.2935	2100 Ridge Suite 4200 Evanston, IL 60201	Alan Stuhlsatz	Dan Swidrak	CIPP - IL	7/24/13	$286,199.50	100%	5250	9", 10", 12", 15", 21", 24"
13037.02	**Johnson County, KS** Auth 21	Joseph Barnes, Johnson County Unified Waste Water P 913.715.8684	480 Nall Avenue Mission, KS 66202	Danny Brown	Randy Mather	CIPP - KS	4/14/14	$984,261.33	100%	43567	8", 10", 12", 15"

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13045	**West Des Moines, IA** 2013 Sewer Lining, No. 0510-027-2013	Jason M. Schlickbernd, P.E., City of West Des Moines P 515.222.3480 F 515.222.3478	Department of Public Works 560 S. 16th Street PO Box 65320 West Des Moines, IA 50265	Alan Stuhlsatz	Tim Bussen	CIPP - IA	10/17/13	$580,892.95	100%	19717	8", 10", 12", 14", 15"
13048	**Chester, IL** Red Dot Const., Sanitary Sewer Improvements	Sub to Red Dot Construction, Inc. P 618.826.4045 F 618.826.4241	PO Box 308 501 Hillview Drive Chester, IL 62233	Matt Hlrtz	Dan Swidrak	CIPP - IL	8/27/13	$30,448.00	100%	610	8"
13049	**Rockford, IL** RRWRD, #1437, IEPA L17-4715	Mike Rieger, Rock River Water Reclamation District P 815.387.7660	3501 Kishwaukee Street Rockford, IL 61109	Chad Rusher	Dan Swidrak	CIPP - IL	6/27/14	$1,777,751.30	100%	69204	8", 9", 10", 12"
13058	**East Moline, IL** 2013 Joint Sewer Lining Program	Tim Kammler, P.E., City of East Moline P 309.752.1595	Engineering Department 1200 - 13th Avenue East Moline, IL 61244	John Price (Foreman)	Dan Swidrak	CIPP - IL	12/20/13	$227,656.40	100%	10310	8", 12", 24"
13065	**Mission Hill,Lump Sum, KS** Langley & Muehlberger, 24" Brookbank	Dennis Langley, Sub to Langley & Muehlberger Concrete Construction P 913.927.0885	54 N. 10th St. Kansas City, KS 66102	Danny Brown	Dan Swidrak	CIPP - KS	7/1/13	$37,396.50	100%	466	24"
13068	**Moulton, IA** Division II - CIPP 3011237	City of Moulton	111 South Main Street Moulton, IA 52572	Chad Rusher	Dan Swidrak	CIPP - IA	3/27/14	$737,751.40	100%	30542	8", 10", 15"
13069	**Maple Lake, MN** 193802140, 2012/2013 I/I Improvement	Phil Gravel, City of Maple Lake P 651.604.4885	10 Maple Avenue Maple Lake, MN	John Price (Foreman)	Dan Swidrak	CIPP - IA	10/31/13	$1,086,976.34	100%	19110	6", 8", 10", 12"
13072	**Leawood, KS** Greeman, G2891, 70014, 2013 Residential St Mil	Lynn Herrington Sub to Freeman Concrete Construction, LLC P 913.825.0744 F 913.825.0745	8357 Monticello Road Shawnee, KS 66227	Danny Brown	Dan Swidrak	CIPP - KS	12/19/13	$18,988.05	100%	103	27"
13075	**Rock Island, IL** 2571 Phase I, 2013 Joint Sewer Lining	City of Rock Island P 309.732.2200 F 309.732.2380	1309 Mill Street Rock Island, IL 61201	John Price (Foreman)	Dan Swidrak	CIPP - IL	11/20/13	$228,653.92	100%	9791	8", 10"
13081	**Coal Valley, IL** 2013 Sewer Lining Program	Al Wilson Village of Coal Valley P 309.799.3604	900 1st street Coal Valley, IL 61240	John Price (Foreman)	Dan Swidrak	CIPP - IL	11/7/13	$64,606.25	100%	2885	8"
13085	**Arden Hills, MN** **2013 Saniatry Sewer Lining Project**	John Anderson,P.E., City of Arden HillLump Sum P 651/792-7800 F 651/634-5137	1245 West Highway 96 Aden HillLump Sum, MN 55112	Josh Grote (Foreman)	Dan Swidrak	CIPP - MN	9/18/13	$635,839.55	100%	23904	8", 10", 12", 15", 18"
13091	**Evanston, IL** 13-43, 2013 CIPP Sewer Rehab Contract B	Lara Biggs, P.E., City of Evanston P 847.448.8210	2100 Ridge Suite 4200 Evanston, IL 60201	Alan Stuhlsatz	Dan Swidrak	CIPP - IL	10/30/13	$180,293.40	100%	2617	9", 10", 12", 15", 18", 21"
13092	**Decatur, IL** 2012-06, L17-4873, Division A, Lake Shore Dr	David Harp, City of Decatur P 217.423.8600	1 Gary K. Anderson Plaxa Decatur, IL 62523	Jason Laney	Dan Swidrak	CIPP - IL	8/22/14	$4,176,369.30	100%	3040	54", 84"
13093	**Silvis, IL** 2013 Sewer Lining Program	Jim Grafton, City of Silvis P 309.314.2406	121 11th Street Silvis, IL 61282	John Price (Foreman)	Dan Swidrak	CIPP - IL	11/14/13	$87,110.50	100%	2937	8", 12"
13097	**Colfax, IA - 2013** Wastwater Collection System Rehab	Steve Klocke, City of Colfax P 515.964.2020	15 E. Howard Street Colfax, IA 50054	Jeff Hirtz	Dan Swidrak	CIPP - IA	4/24/15	$422,370.01	100%	8237	6", 8", 10", 12"
13099	**O'Fallon, IL** CIPP Lining & Repairs, Annice Drive	Dennis Sullivan, City of O'Fallon P 618.624.4500 F 618.624.4508	255 South Lincoln O'Fallon, IL 62269	Kyle Bowen (Foreman)	Tom Qualls	CIPP - IL	8/27/13	$36,034.00	100%	282	8"
13116	**Cambridge, IL** 2013 Sewer Lining, Quad Cities Joint Sewer	Dwayne Van Mann, Village of Cambridge P 309.937.2626	124 West Exchange Street Cambridge, IL 61238	Alan Stuhlsatz	Dan Swidrak	CIPP - IL	11/7/13	$74,178.75	100%	3399	8"
13121	**Lenexa, KS** McAnany, College Blvd & Strang Line Rd	Eric Vossman, Sub to McAnany Construction P 913.631.5440 F 913.631.7043	15320 Midland Drive Shawnee, KS 66217	Danny Brown	Randy Mather	CIPP - KS	9/18/14	$88,852.30	100%	787	24"
13122	**Des Moines, IA** 2013 Sewer Lining Program, 07-2013-002	Matt Radermacher, City of Des Moines P 515.283.4076	400 Robert D Ray Dr. Des Moines, IA 50309-1891	Jason Laney	Randy Mather	CIPP - IA	4/23/14	$1,897,367.65	100%	10889	10", 15", 18", 21", 24", 45", 60"
13125	**Spring Hill, KS** Sanitary Sewer Lining & MH Rehab	James Boyer (Superintendent of Utilities for Ponzer-Youngquist, P.A. Engineer Firm) P 913.592.2996	City of Spring Hill 401 N Madison, PO Box 424 Spring Hill, KS 66083	Danny Brown	Dan Swidrak	CIPP - KS	11/4/13	$103,736.95	100%	3221	8"
13131	**Iola, KS** Contract #3-Sanitary Sewer Lining Improvements	Carl Slaugh, City of Iola P 620.365.4900	2 W. Jackson Avenue Iola, KS 66749	Danny Brown	Randy Mather	CIPP - KS	5/7/14	$412,655.15	100%	13656	8", 10", 12", 15", 17", 18", 21"
13134	**Cahokia, IL** Mettler Dev, Range Line & Frontenac Dr	Jason Mettler, Mettler Development P 618.654.5127 F 618.654.7842	12359 Highland Road Highland, IL 62249	John Price (Foreman)	Tim Bussen	CIPP - IL	12/4/13	$15,694.00	100%	301	8"
13145	**Wyandotte County, KS** Wiedenmann, 61st & I-70	John Menkhus; Unified Govt. of Wyandotte Co., KS P 913.573-5700 F 913.573-5435	701 N. 7th St. Kansas City, KS 66101	Danny Brown	Dan Swidrak	CIPP - KS	11/8/13	$55,286.00	100%	616	18"

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13156	**Wyandotte County, KS** 6304, 2013 Trenchless Sewer Repairs	Jerod Leitcher Unified Government of Wyandotte County P 913.573.1303 F 913.573.5727	701 N. 7th St. Kansas City, KS 66101	Danny Brown	Randy Mather	CIPP - KS	1/1/15	$564,683.61	100%	16021	8", 10", 12", 15", 18", 21", 24"
14006	**ELump Sumah, IL** **Principia College, Pipe Lining**	Roy Braundmeier, The Principia Corporation P 618.374.5099	13201 Clayton Road St. Louis, MO 63131	Jason Laney	Dan Swidrak	CIPP - IL	5/20/14	$64,929.55	100%	310	27"
14007	**Omaha, NE** OPW 52562 (RN) Multi Site Sewer Lining Project	Jorge Rivero. City of Omaha P 402.444.3995	1819 Farnam Street Suite 601 Omaha, NE 68183	Danny Brown	Dan Swidrak	CIPP - NE	12/23/14	$2,605,043.11	100%	22615	8", 10", 15", 18", 24", 36"
14010	**Sioux FalLump Sum, SD** American West, 1407, Big Sioux River & Sku	Jude Kolb, Sub to American West Construction, LLC P 303.455.0838	275 E. 64th Ave. Denver, CO 80221	Danny Brown	Dan Swidrak	CIPP - SD	5/31/14	$336,929.25	100%	464	24", 30", 36", 42", 60"
14016	**Grinnell, IA** 2014 Arbor Lake Sanitary Sewer Rehab	Jan Anderson, City of Grinnell P 641.990.0354	927 Fourth Avenue Grinnell, IA	Danny Brown	Randy Mather	CIPP - IA	6/11/14	$148,859.75	100%	1677	24"
14027	**Sauget, IL** 7313-13-5, American Bottoms Sewer Remediation	Ric Cooper. City of Sauget Wastewater Treatment Facility P 618.337.1710	2897 Falling Springs Road Sauget, IL 62206	Jason Laney	Tim Bussen	CIPP - IL	5/10/14	$196,661.50	100%	815	36"
14030	**Manhattan, KS** SS 1404, 2014 CIPP Sewer Lining	Randy DeWitt, City of Manhattan P 785.587.2415 F 785.587.2416	1101 Poyntz Ave. Manhattan, KS 66502	Danny Brown	Randy Mather	CIPP - KS	9/30/14	$416,664.50	100%	15411	8", 10"
14031	**Lenexa, KS** McAnany, College Blvd & Lackman Rd.	Pat McAnany, Sub to McAnany Construction P 913.631.5440	15320 Midland Drive Shawnee, KS 66217	Danny Brown	Randy Mather	CIPP - KS	9/29/14	$23,324.05	100%	193	18"
14035	**Johnson County, KS** CMSD Contract No. 19, Term 1, 2014-2015	Joseph Barnes, Johnson County Wastewater P 913.715.8684	11811 S. Sunset Drive, #2500 Olathe, KS 66061	Danny Brown	Randy Mather	CIPP - KS	10/31/16	$1,478,149.45	100%	63722	8", 10", 12", 15", 18", 21"
14035.02	**Johnson County, KS** CMSD Contract No. 19, Term 2014-2015, Auth 2	Joseph Barnes, Johnson County Wastewater P 913.715.8684	11811 S. Sunset Drive, #2500 Olathe, KS 66061	Danny Brown	Randy Mather	CIPP - KS	11/16/16	$1,416,385.00	100%	62244	8", 10", 12", 15"
14035.03	**Johnson County, KS** CMSD Contract No. 19, Term 2015-2016, Auth 3	Joseph Barnes, Johnson County Wastewater P 913.715.8684	11811 S. Sunset Drive, #2500 Olathe, KS 66061	Danny Brown	Randy Mather	CIPP - KS	12/12/16	$1,634,467.00	100%	71484	8", 10", 12", 15", 18"
14035.05	**Johnson County, KS** CMSD Contract No. 19, Term 2016-2017, Auth 5	Joseph Barnes, Johnson County Wastewater P 913.715.8684	11811 S. Sunset Drive, #2500 Olathe, KS 66061	Danny Brown	Randy Mather	CIPP - KS	9/30/17	$1,793,169.50	100%	74702	8", 10", 12", 15", 18", 36"
14035.07	**Johnson County, KS** CMSD Contract No. 19, Term 2016-2017, Auth 7	Joseph Barnes, Johnson County Wastewater P 913.715.8684	11811 S. Sunset Drive, #2500 Olathe, KS 66061	Danny Brown	Randy Mather	CIPP - KS	6/1/18	$2,071,163.65	100%	82774	8", 10", 12, 15", 18", 21", 24", 30"
14035.08	**Johnson County, KS** CMSD Contract No. 19, Term 2016-2017, Auth 8	Joseph Barnes, Johnson County Wastewater P 913.715.8684	11811 S. Sunset Drive, #2500 Olathe, KS 66061	Danny Brown	Randy Mather	CIPP - KS	9/16/18	$1,124,069.10	100%	43794	8", 10", 12, 15", 18",30"
14035.09	**Johnson County, KS** CMSD Contract No. 19, Term 2017-2018, Auth 9	Joseph Barnes, Johnson County Wastewater P 913.715.6848	11811 S. Sunset Drive, #2500 Olathe, KS 66061	Danny Brown	Randy Mather	CIPP - KS	2/3/20	$1,363,852.95	100%	55849	8", 10", 12" 15", 18", 30"
14035.11	**Johnson County, KS** CMSD Contract No. 19, , Auth 11	Brandon Morris, Johnson County Wastewater P 913.207.5234 Brandon.Morris@jcw.org	4800 Nall Avenue Mission, KS 66202	Danny Brown	Brent Adams	CIPP - KS	12/19/19	$1,348,775.90	100%	55872	8", 10", 12", 15"
14036	**Kirkland, IL** 2014 Sanitary Sewer System Rehab	Eric Murauskas, (Engineering Firm Baxter & Woodman, Inc.) Village of Kirkland P 815.522.6179 F 815.522.3501	511 W. Main Street Kirkland, IL 60146	Josh Grote (Foreman)	Dan Swidrak	CIPP - IL	6/15/14	$183,124.65	100%	5405	6", 8"
14040	**Kansas City, MO** Downtown Streetcar Sewer Rehab	Sub to Rodriguez Mechanical Contractors, Inc. P 913.281.1814 F 913.621.4354	541 S. 11th Street Kansas City, KS 66105	Danny Brown	Randy Mather	CIPP - KS	4/30/15	$1,201,980.50	100%	8885	10", 12", 15", 18", 21", 24", 30", 54", 60"
14042	**Oak Grove, MO** CIPP Lining 2014	Ryan Ratcliff, City of Oak Grove P 816.390.3773	1300 S. Broadway Oak Grove, MO 64075	Danny Brown	Randy Mather	CIPP - KS	6/17/14	$99,430.30	100%	3684	8", 10"
14045	**Galva, IL** 2012031, Sanitary Sewer Rehab	Kevin Cooper, Bruner, Cooper & Zuck, Inc (Engineer) P 309.368.9534	188 E. Simmons St. Galesburg, IL 61401	Jeff Hirtz	Dan Swidrak	CIPP - IL	10/27/14	$299,620.25	100%	12275	8"
14046	**Chicago, IL** 12-057-3S, North Shore Intercepting Sewer 2	Dennis Billik, Metropolitan Water Reclamation Distirct of Greater Chicago P 312.751.5600	100 East Erie Street Chicago, IL 60611	Brad Schenning	Dan Swidrak	CIPP - IL	11/4/15	$4,636,198.41	100%	5925	27", 52"
14048	**Belleville, IL** Our Lady of the Snows 28" CIPP	Steve Guenther, National Shrine Our Lady of the Snows P 618.397.6700	442 S DeMazenod Dr Belleville, IL 62223	John Hembrock (Foreman)	Tim Bussen	CIPP - IL	7/1/14	$38,280.00	100%	232	28"
14051	**Rockford, MN** LaTour, 2014 Rockford Utility Improvement	Joseph LaTour, Sub to LaTour Construction, Inc. P 320.963.5993	2134 County Road 8 Maple Lake, MN 55358	James Farnsworth (Foreman)	Dan Swidrak	CIPP - MN	10/30/14	$236,820.56	100%	9380	8"
14056	**St. Paul, MN** Met Council, 808020, Seneca Area	Don Norbin, Metropolitan Council P 651.602.1000 F 651.602.1550	390 Robert Street North Saint Paul, MN 55101	Jason Laney/ Billy Gates	Dan Swidrak	CIPP - MN	8/13/15	$4,630,224.00	100%	12481	18", 30", 36"

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SAK CONSTRUCTION COMPLETED PROJECTS LIST

VP Job #	Project Name	Owner's Contact Information	Address	Superintendent	Project Manager	Type	Completed Date	Completed Amount	Percent Complete	Footage Complete	Diameters
14065	**Winona, KS** 2014 Sanitary Sewer, 18-055-396067690, 13PF028	Samuel Johnson, BG Consultants - City of Winona P 785.537.7448	301 Bellview PO Box 262 Winona, KS 67764	Danny Brown	Randy Mather	CIPP - KS	11/1/14	$823,945.80	100%	18843	8"
14078	**Apple Valley, MN** 2014-134, 2014 Sanitary Sewer Lining	Carol Blommel Johnson, City of Apple Valley P 952.953.2441	7100 147th Street West Apple Valley, MN 55124	James Farnsworth (Foreman)	Dan Swidrak	CIPP - MN	10/23/14	$230,920.00	100%	8063	9"
14084	**Table Grove, IL** 2012049, Sanitary Sewer Improvement	Village of Table Grove P 309.758.5071	1114 WeWest Side Square PO Box 158 Table Grove, IL 61482	Jeff Hirtz	Dan Swidrak	CIPP - IL	2/5/15	$502,411.35	100%	10386	8", 10"
14088	**Johnson County, KS** Wiedenmann, Line Rehab 75th & I-35	Glen Barge, Sub to Wiedenmann, Inc. P 816.322.1125 F 816.322.1126	950 N. Scott PO Box 245 Belton, MO 64012	Danny Brown	Randy Mather	CIPP - KS	8/7/14	$9,270.00	100%	412	8"
14098	**Sioux City, IA** 2014 Sewer Lining Project	Glenn Ellis, PE, City of Sioux City P 712.279.6330	405 6th Street Sioux City, IA 51102	Danny Brown	Randy Mather	CIPP - IA	4/23/15	$228,657.40	100%	583	24", 30"
14099	**O'Fallon, IL** CIPP Lining, Weber Road	Jeff Taylor, City of O'Fallon P 618.0624.4500	255 South Lincoln O'Fallon, IL 62269	Kyle Bowen (Foreman)	Tim Bussen	CIPP - IL	9/18/14	$27,060.00	100%	820	15"
14101	**Red Wing, MN** 2014 Levee Rd Sewer Reconstruction	Robert Stark, PE, City of Red Wing P 651.385.3674 F 651.388.0243	315 West 4th Street Red Wing, MN 55066	Jason Laney	Dan Swidrak	CIPP - MN	12/18/14	$247,321.00	100%	2338	30"
14103	**Aledo, IL** Sewer Lining 2014	City of Aledo	2700 W. Main Street Aledo, IL 61231	Jeff Hirtz	Dan Swidrak	CIPP - IL	2/4/15	$225,525.03	100%	6652	6", 8", 10", 24", 36"
14113	**Lawrence, KS** 2014 Annual Lining Project	Nicholas Hoyt, PE, City of Lawrence P 785.832.7882 nhoyt@lawrenceks.org	PO Box 708 Lawrence, KS 66046	Danny Brown	Randy Mather	CIPP - KS	8/28/15	$1,095,912.86	100%	40175	6", 8", 10", 12", 15", 16", 18", 21", 22", 24", 30"
14129	**Wellsville, KS** 2014 Sanitary Sewer Rehabilitation	Christopher Cross, City of Wellsville P 785.418.8039 directorpw@netzero.com	411 Main Street PO Box 455 WellLump Sumville, KS 66092	Danny Brown	Randy Mather	CIPP - KS	2/2/15	$69,907.25	100%	1971	8", 12"
14135	**Clay City, IL** 6th Street Sanitary Sewer Lining	Village of Clay City (Owner) Contact Information is for Engineer who is the project representative: Miek Bridges, Charleston Engineering P 618.392.0736 charlestonengineering@frontier.com	PO Box 397 Olney, IL 62450	Jeff Hirtz	Tim Bussen	CIPP - IL	7/17/15	$61,238.70	100%	1754	8"
14136	**Topeka, KS** Emergency Repair for WPC Project 162065 - Event #752	Tim McCormick, City of Topeka P 785.368.2409 tmccormick@topeka.org	620 SE Madison Topeka, KS 66607	Danny Brown	Randy Mather	CIPP - KS	1/8/15	$49,220.00	100%	454	18"
14144	**Decatur, IL** 2014 Sewer Rehabilitation Project	Don Miller. Sanitary District of Decatur P 217.422.6931 ext 216 DonM@sddcleanwater.org	501 Dipper Lane Decatur, IL 62522	Jason Laney	Dan Swidrak	CIPP - IL	11/5/15	$2,129,328.53	100%	13192	18", 21", 42", 66"
15005	**Wyandotte County, KS** 2014 Trenchless Sanitary Sewer Rehabilitation, Contract #2	John Menkhus, PE, Unified Gov Wyandotte County P 913.573.5700 jmenkhus@wycokck.org	701 N. 7th St. Kansas City, KS 66101	Danny Brown	Randy Mather	CIPP - KS	6/11/16	$1,461,153.00	100%	28102	8", 10", 12", 15", 18", 21", 24", 30", 33", 36"
15016	**Lenexa, KS** 2015 Lenexa PMP Mill & Overlay	Roger Vossman, Sub to McAnany Construction, Inc. P 913.631.5440 rogerv@mcananyconstruction.com	15320 Midland Drive Shawnee, KS 66217	Danny Brown	Randy Mather	CIPP - KS	7/20/15	$222,941.50	100%	1862	15", 18", 24", 30"
15027	**Fairway, KS** Aquatics CIPP	Greg Phillips, Sub to Phillco Construction, LLC gphillips@phillco.biz	6709 NW Monticello Terrace Parkville, MO 64152	Danny Brown	Randy Mather	CIPP - KS	5/30/15	$6,370.00	100%	60	8"
15033	**Lenexa, KS** Pennygreen CMP Repair	Spencer Foster, Sub to Linaweaver Construction, Co. P 913.351.3474 spencer@linaweaver.com	719 E Gilman Road Lansing, KS 66043	Danny Brown	Randy Mather	CIPP - KS	7/2/15	$42,618.00	100%	102	30", 36"
15035	**Lawrence, KS** 15th Street Reconstruction	Leigh Myers, PE, KU Design & Construction Management Kansas University P 785.864.5651 lgmyers@ku.edu	1515 St. Andrews Dr. Lawrence, KS 66045	Danny Brown	Randy Mather	CIPP - KS	7/2/15	$24,528.00	100%	584	6"
15047	**Lombard, IL** FY 2015 Sewer Lining	Ray Hoving, Village of Lombard P 630.620.3598 hoving@villageoflombard.org	1051 Hammerschmidt Ave., Lombard, IL 60148	Jeff Hirtz	Dan Swidrak	CIPP - IL	12/4/15	$149,717.50	100%	2424	8", 15", 18"
15048	**Valley, NE** 69 Ginger Wood Road Emergency CIPP Repair	Jesse Lanz, Valley Corporation P 402.359.2578 jesse@valleycorp.com	28001 Ida Circle Valley, NE 68064	Danny Brown	Randy Mather	CIPP - NE	6/12/15	$19,115.00	100%	120	8"
15053	**Salina, KS** Sanitary Sewer Rehabilitation	David Lady, PE, City of Salina P 785.826.7305 ext. 213 davidlady@salina.org	Utilities Department 401 South 5th Street Salina, KS 67401	Danny Brown	Randy Mather	CIPP - KS	12/30/15	$686,730.00	100%	18876	8", 10", 12", 15"
15058	**Leavenworth, KS** Spruce and 6th Street 10" CIPP	Tim Guardado, City of Leavenworth P 913.682.1090 tguardado@firstcity.org	1800 S 2nd St. Leavenworth, KS 66048	Danny Brown	Randy Mather	CIPP - KS	7/10/15	$13,450.00	100%	212	10"
15065	**Decatur, IL** 2015 Trenchless Long Lining Repairs	Byron Bowman, City of Decatur P 217.424.2747 bbowman@decaturil.gove	1 Gary K Anderson Plaza Decatur, IL 62523-1196	Jeff Hirtz	Dan Swidrak	CIPP - IL	11/22/15	$349,197.15	100%	9578	8", 10", 12", 15", 21"

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SAK CONSTRUCTION COMPLETED PROJECTS LIST

VP Job #	Project Name	Owner's Contact Information	Address	Superintendent	Project Manager	Type	Completed Date	Completed Amount	Percent Complete	Footage Complete	Diameters
15068	**Wichita, KS** 2015 Sanitary Sewer Rehabilitation Phase D	Jeff Terhune, City of Wichita P 316.268.4046 jterhune@wichita.gov F 316.858.7411	1801 South McLean Wichita, KS 67213	Danny Brown	Leo Calvario	CIPP - KS	10/23/15	$315,128.25	100%	14217	8"
15069	**Central City, IL** 2015 Sewer Repair Project Trenchless Sanitary Sewer Rehab	Edward Czech, Sub to Hank's Excavating & Landscaping, Inc. P 618.398.5556 F 618.398.2729	5825 W. State Rt. 161 Belleville, IL 62223	Jeff Hirtz	Dan Swidrak	CIPP - IL	10/1/15	$31,090.50	100%	987	8"
15074	**St. Jacob, IL** Sewer Rehab	Edward Czech, Sub to Hank's Excavating & Landscaping, Inc. P 618.398.5556 F 618.398.2729	5825 W. State Rt. 161 Belleville, IL 62223	Jeff Hirtz	Dan Swidrak	CIPP - IL	11/22/15	$20,930.00	100%	520	8"
15095	**Des Moines, IA** 2015 Sewer Lining Program	Matt Radermacher, City of Des Moines P 515.283.4076 mkradermacher@dmgov.org	400 Robert D Ray Drive Des Moines, IA 50309	Danny Brown	Randy Mather	CIPP - IA	2/6/18	$2,837,501.79	100%	7413	10", 12", 18", 24", 30", 36", 48", 54", 60"
15107	**Overland Park, KS** Quik Trip #0157R	Mary Conley, Sub to Conley Sitework & Utilities P 785. 838.4646 maryconleysandu@gmail.com	P.O. Box 250 12321 222nd Street Linwood, KS 66052	Danny Brown	Randy Mather	CIPP - KS	1/15/16	$21,590.00	100%	425	8"
15108	**El Dorado, KS** SS System Repair & Rehab	Alan Blough, Sub to Nowak Construction Company P 316. 794.8898 alan@nowakconstruction.com	PO Box 218 200 South Goddard Rd. Goddard, Kansas 67052	Danny Brown	Randy Mather	CIPP - KS	5/20/16	$13,317.00	100%	386	8"
15111	**Chicago, IL** Glenbrook Sanitary Sewer Rehabilitation, NSA Contract 14-061-3S	Fred WU, Metropolitan Water Reclamation District of Greater Chicago P 312.751.4025 Frederick.Wu@mwrd.org	100 East Erie Street Chicago, Illinois 60611	Jeff Hirtz	Dan Swidrak	CIPP - IL	2/8/17	$1,205,741.73	100%	4397	18", 21"
15118	**Columbia, IL** 2015-2016 Sanitary Sewer Line Rehabilitation Project	Tim Ahrens, City of Columbia, IL P 618.281.4264 tahrens@columbiaillinois.com	110 West Sand Bank Rd. Columbia, Illinois 62236	Jeff Hirtz	Dan Swidrak	CIPP - IL	4/1/16	$47,120.00	100%	1984	8"
15119	**Rantoul, IL** 2015 Sewer lining project	Peter Passarelli, Rantoul, IL P 217.892.6526 Ppassar@myrantoul.com	200 W. Grove Ave. Rantoul, IL 61866	Jeff Hirtz	Dan Swidrak	CIPP - IL	3/29/16	$126,514.85	100%	4317	8", 10", 12"
16003.01	**Lawrence, KS** UT1508 2015 SS Rehabilitation CIPP Project	Nicholas Hoyt, P.E., City of Lawrence - Utilities Department P 785. 832.7882 nhoyt@lawrenceks.org	P.O. Box 708 Lawrence, KS 66046	Danny Brown	Randy Mather	CIPP - KS	4/13/17	$1,455,370.01	100%	44649	8", 10", 12", 15", 21", 24", 30", 36"
16008	**Wyandotte County, KS** 2015 Sanitary Sewer Rehabilitation & Repair, Contract 2 Project I.D.: 6182	Kris Finger, Unified Government of Wyandotte County,Kansas City, KS P 913.573.5422 kfinger@wycokck.org	701 N. 7th St. Kansas City, KS 66101	Danny Brown	Randy Mather	CIPP - KS	9/30/17	$1,745,716.85	100%	26079	8", 10", 12", 15", 18", 24", 30", 36"
16012	**Lenexa, KS** 2016 Mill and Overlay	Eric Vossman, Sub to McAnany Construction, Inc. P 913.631.5440 ericv@mcananyconstruction.com	15320 Midland Drive Shawnee, KS 66217	Danny Brown	Randy Mather	CIPP - KS	2/14/17	$202,161.00	100%	1093	18", 21", 24", 30", 36", 48"
16015	**Lyons, KS** Municipal Sewer Line Project 2016	Chris Veatch, The City of Lyons P 620.257.3054 utilityadmin@lyonsks.org	201 West Main P.O. Box 808 Lyons, KS 67554	Danny Brown	Randy Mather	CIPP - KS	9/7/16	$34,058.40	100%	1104	8"
16018	**Dubuque, IA** FY16 (CIPP) Sanitary Sewer Lining Project	Denis Ihrig, The City of Dubuque P 563.589.4270 dihrigcityofdubuque.org	50 W. 13th St. Dubuque, IA 52001	Jeff Hirtz	Dan Swidrak	CIPP - IA	6/25/16	$440,344.00	100%	12784	8", 10", 18"
16021	**Ed Dorado, KS** 15" Sanitary Sewer CIPP on Skelly St.	Gary Taylor, City of El Dorado P 316.323.5621 gtaylor@eldoks.com	220 E. 1st Avenue El Dorado, KS 67042	Danny Brown	Randy Mather	CIPP - KS	5/20/16	$41,888.00	100%	616	15"
16022	**Leavenworth, KS** 2015 Sanitary Sewer Rehabilitation and Replacement	Spencer Foster, Sub to Linaweaver Construction P 913.351.3474 spencer@linaweaver.com	719 Gilman Rd. Lansin, KS 66043	Danny Brown	Randy Mather	CIPP - KS	6/12/17	$120,424.25	100%	2434	7", 15", 18"
16025	**St. Paul, MN** NAI Rehabilitation - Phase 10 Contract Number 15P303	Richard Hjelle, Metropolitan Council P 612.328.2680 Contact Email	390 Robert Street North Saint Paul, MN 55101	Jeff Hirtz	Dan Swidrak	CIPP - MN	7/30/16	$2,365,685.76	100%	3714	36", 42"
16027	**Mission Woods, KS** Storm Sewer Lining - Rainbow Ave.	John Sullivan, City of Mission Woods P 913.432.1550 john.sullivan@westwoodks.org	4700 Rainbow BLVD. Shawnee Mission, Kansas 66205	Danny Brown	Randy Mather	CIPP - KS	5/10/16	$27,103.50	100%	321	18"
16028	**Lenexa, KS** Post Oak Drainage Improvements	Bill Reno, Sub to KC Heavy P 913.845.2121 bill.reno@kshwycon.com	19425 State Avenue Tonganoxie, KS 66086	Danny Brown	Randy Mather	CIPP - KS	9/30/17	$336,547.00	100%	4216	12", 15", 18", 21", 24", 30", 36"
16033	**Wheeling, IL** 2016 Sewer Lining Project Contract	Lana Rudnik, Village of Wheeling P 847.279.6912 lrudnik@wheelingil.gov	2 Community Blvd Wheeling, IL 60090	Jeff Hirtz	Dan Swidrak	CIPP - IL	6/7/16	$145,600.50	100%	5294	8", 10"
16037	**Brooklyn Park, MN** 2016 Large Sanitary Sewer Lining Project	Jon Watson, City of Brooklyn Park P 793.493.8008 jon.watson@brooklynpark.org	5200 85th Ave. N. Brooklyn Park, MN 55443	Jeff Hirtz	Dan Swidrak	CIPP - MN	7/8/16	$892,408.00	100%	5435	24", 27"
16038	**Shawnee, KS** 2015 Stormwater Pipe Repair	Albert Seeman, Sub to Amino Brothers Co., Inc. P 913.334.2330 al@aminobros.com	8110 Kaw Drive P.O. Box 11277 Kansas City, KS 66111	Danny Brown	Randy Mather	CIPP - KS	7/30/16	$39,894.00	100%	265	12", 15", 18"
16042	**Newton, KS** SS Rehab Phase 2	Alan Blough, Sub to Nowak Construction P 316.794.8898 alan@nowakconstruction.com	200 South Goddard Rd. Goddard, KS 67052	Danny Brown	Randy Mather	CIPP - KS	1/2/17	$57,577.20	100%	2568	6", 8"

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SAK CONSTRUCTION COMPLETED PROJECTS LIST

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16045	**Urbana & Champaign Sanitary District (IL)** FY17 Collection System Upgrade Project	Mark Radi, Urbana & Champaign Sanitary District (IL) P 217.367.3409 ext. 1222 mlradi@u-csd.com	1100 E. University Ave. Urbana, IL 61802	Jeff Hirtz	Dan Swidrak	CIPP - IL	4/7/17	$802,140.48	100%	4320	8", 12", 21", 33"
16046	**Manhattan, KS** 2016 CIPP Sewer Lining SS 1607	Norm Francis, City of Manhattan P 785.587.4583 francisn@cityofmhk.com	1101 Poyntz Ave. Manhattan, KS 66502	Danny Brown	Randy Mather	CIPP - KS	8/18/16	$440,338.20	100%	20199	8"
16047	**North Newton, KS** CIPP	Alan Blough, Sub to Nowak Construction Company P 316.794.8898 alan@nowakconstruction.com	200 South Goddard Rd. Goddard, KS 67052	Danny Brown	Randy Mather	CIPP - KS	8/25/16	$19,200.00	100%	677	8", 10"
16048	**Johnston, IA** Camp Dodge Sanitary Sewer Lateral Repair - Phase 1	Jamie Crubaugh, Sub to J & K Contracting P 515.233.5500 ext 12 jcrubaugh@jandkcontracting-ia.com	1307 East Lincoln Way Ames, IA 50010	Danny Brown	Randy Mather	CIPP - IA	1/30/17	$67,249.00	100%	1566	8", 12"
16049	**Davenport, IA** F.Y. 2017 Sewer Lining Program	Sandy Doran, City of Davenport P 563.326.7756 sdoran@ci.davenport.ia.us	226 West Fourth St. Davenport, IA 52801	Jeff Hirtz	Dan Swidrak	CIPP - IA	4/1/17	$1,542,579.70	100%	52489	8", 10", 12", 15", 16", 18", 24"
16058	**Hiawatha, KS** Sanitary Sewer Rehab, Phase II	Alan Blough, Sub to Nowak Construction P 316.794.8898 alan@nowakconstruction.com	200 S. Goddard Road Goddard, KS 67052	Danny Brown	Randy Mather	CIPP - KS	1/30/17	$148,773.05	100%	4884	8", 10"
16061	**Moline, IL** 2016 Sanitary Sewer Lining, Project #1250	Darrel Preston, City of Moline 309.524.2355 dpreston@moline.il.us	Dept of Public Works 3635 4th Avenue Moline, IL 61265	Jeff Hirtz	Dan Swidrak	CIPP - IL	12/29/16	$92,897.00	100%	3023	8", 10", 12"
16062	**Shawnee, KS** Quivira Rd Rehab, 3410	Roger Vossman, Sub to McAnany Construction P 913.927.6663 rogerv@mcananyconstruction.com	15320 Midland Dr. Shawnee, KS 66217	Danny Brown	Randy Mather	CIPP - KS	3/27/17	$23,300.00	100%	327	15", 18"
16063	**Lawrence, KS** KU Memorial Drive	David Kissick, Sub to Kissick Construction Company P 816.363.5530 dkissick@kissickco.com	8131 Indiana Ave. Kansas City, MO 64132	Danny Brown	Randy Mather	CIPP - KS	6/15/16	$13,500.00	100%	182	8"
16065	**Newton, KS** Millennium Machine	Kris Wondra, Sub to Millennium Machine and Tool, Inc. P 316.282.0884 krisw@mmtinc.net	9801 West York St. Wichita, KS 67215	Danny Brown	Randy Mather	CIPP - KS	8/30/16	$14,870.00	100%	220	8"
16068	**Lenexa, KS** Lichtenauer CMP Repair	Matt Gripka, Sub to Kansas Heavy Construction, LLC 913.845.2121 mattgripka@kshvycon.com	19425 State Avenue Tonganoxie, KS 66086	Danny Brown	Randy Mather	CIPP - KS	1/23/17	$130,187.00	100%	741	15", 42", 48"
16074	**Decatur, IL** 2016 Trenchless Long Lining Repairs, City Project 2016-28	Darrel Preston, City of Moline 309.524.2355 dpreston@moline.il.us	#1 Gary K Anderson Plaza Decatur, IL 62523	Jeff Hirtz	Dan Swidrak	CIPP - IL	11/30/16	$448,012.10	100%	16654	8", 10", 12", 18"
16075	**Godfrey, IL** Phillips 66 Wood River Refinery	Contact Name, Sub to Widman Construction Contact Phone Number Contact Email	P66 Wood River Refinery 27199 State Highway 3 Godfrey, IL 62033	Matt Hirtz	Nick Pryor	CIPP - IL	10/30/16	$272,475.00	100%	500	24"
16085	**Belleville, IL** Misc. Sanitary Sewer	Ron Stuckel, St. Clair Township 618.234.8898 ron.stuckel@kdginc.com	15 East Washington Belleville, IL 62220	Jeff Hirtz	Dan Swidrak	CIPP - IL	11/29/16	$77,875.00	100%	3115	8"
16088	**Geneva, IL** 2016 Sanitary Sewer Lining	Bob Van Gyseghem, City of Geneva 630.232.1551 bvangyseghem@geneva.il.us	1800 South Street Geneva, IL 60134	Jeff Hirtz	Dan Swidrak	CIPP - IL	12/15/16	$211,161.00	100%	4676	8", 12", 15", 24"
16089	**St. Charles, IL** 2016 Sewer Lining Project	Tim WiLump Sumon, City of St. Charles P 630.377.4405 twiLump Sumon@stcharlesil.gov	Two East Main Street St. Charles, IL 60174	Jeff Hirtz	Dan Swidrak	CIPP - IL	11/18/16	$426,670.00	100%	4387	12", 18", 21", 24", 27"
16090	**Batavia, IL** 2016 Sewer Lining Project	Tim Grimm, City of Batavia 630.454.2750 tgrimm@cityofbatavia.net	200 N Raddant Rd. Batavia, IL 60510	Jeff Hirtz	Dan Swidrak	CIPP - IL	11/28/16	$192,638.00	100%	5068	8", 10", 12", 15"
16093	**Shawnee, KS** Lakecrest Drive & Johnson Drive Emergency Pipe Repair	Cynthia Moeller-Krass, City of Shawnee P 913.742.6236 cmoeller-krass@ci.shawnee.ks.us	11110 Johnson Drive Shawnee, KS 66203	Danny Brown	Randy Mather	CIPP - KS	11/28/16	$101,510.75	100%	130	54"
16094	**Buffalo Grove, IL** 2016 Sewer Lining, Phae 2	Kyle Johnson, Village of Buffalo Grove 847.459.2523 kjohnson@vbg.org	50 Raupp Blvd. Buffalo Grove, IL 60089	Jeff Hirtz	Dan Swidrak	CIPP - IL	11/16/16	$216,416.25	100%	6931	8", 10", 12", 15"
16095	**Bonner Springs, KS** Wastewater CIPP 2016	Ron Wyatt, City of Bonner Springs P 913.422.8117 bonnerwater@bonnersprings.org	PO Box 38 205 East Second St. Bonner Springs, KS 66012	Danny Brown	Randy Mather	CIPP - KS	2/17/17	$60,527.70	100%	2658	8"
16097	**Fox Lake, IL** 2016 Sanitary Sewer Cleaning & Lining	Aaron Berry, Village of Fox Lake 630.587.0470 a.berry@taiengr.com	66 Thillen Dr. Village of Fox Lake, IL 60020	Jeff Hirtz	Dan Swidrak	CIPP - IL	11/28/16	$82,737.50	100%	2835	8"
16110	**Jacksonville, IL** Town Brook at Westown Ford and Delaney Drive - Western Knoll Subdivision Sanitary Sewer Lining	Contact Name, City of Jacksonville 217-245-4146 msorrill@bentonassociates.com	200 West Douglas Avenue Jacksonville, IL 62650	Jeff Hirtz	Dan Swidrak	CIPP - IL	11/22/16	$32,125.00	100%	515	8", 15"
16122	**Montgomery, IL** Pearl Street Storm Sewer Rehab	Timothy Paulson, Village of Montgomery P 630.466.6700 tpauLump Sumon@eeiweb.com	200 N. River St. Montgomery, IL 60538	Jeff Hirtz	Dan Swidrak	CIPP - IL	6/20/17	$131,814.00	100%	1294	24"

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SAK CONSTRUCTION COMPLETED PROJECTS LIST

VP Job #	Project Name	Owner's Contact Information	Address	Superintendent	Project Manager	Type	Completed Date	Completed Amount	Percent Complete	Footage Complete	Diameters
16126	**Clive, IA** 2016/17 Sanitary Sewer Lining Program	Jeff May, City of Clive P 515.223.6231 jmay@cityofclive.com	2123 NW 111th St. 515.223.6231 Clive, IA 50325-3755	Danny Brown	Randy Mather	CIPP - IA	4/17/17	$94,382.51	100%	4610	8"
16137	**Overland Park, KS** Discount Tire CIPP Lining of Sanitary Sewer	Rick Kraszewski, Sub to DZI Construction Services, Inc. P 248.241.6670 rickk@dzicontruction.com	9675 Northwest Court Clarkston, MI 48346	Danny Brown	Randy Mather	CIPP - KS	5/24/17	$16,550.00	100%	370	8"
16147	**Pittsburgh, KS** Sanitary Sewer Rehab 2016, Hobson Addition	Matt Bacon, City of Pittsburg, KS P 620.240.5138 matt.bacon@PITTKS.ORG	201 W. 4th St. Pittsburg, KS 66762	Danny Brown	Randy Mather	CIPP - KS	10/13/17	$303,018.50	100%	5314	8", 24"
16151	**Omaha, NE** Omaha Airport Authority, Eppley Pipe Repair	Trevor Tonniges, Omaha Airport Authority P 402.661.8018 Trevor.Tonniges@FlyOMA.com	4501 Abbott Drive, Suite 2300 Eppley Airfield Omaha, NE 68110	Danny Brown	Randy Mather	CIPP - NE	2/28/17	$34,875.00	100%	70	18"
17003	**Udall, KS** Water Distribution Phase III	Jeff Murphy, Sub to Nowak Construction Co., Inc. P 316.794.8898 jeff@nowakconstruction.com	200 S. Goddard Road Goddard, KS 67052	Danny Brown	Randy Mather	CIPP - KS	7/14/17	$20,736.00	100%	384	8"
17006	**Decatur, IL** 7th Ward Sewer Rehabilitation City Project 2015-07	Paul Caswell, City of Decatur P 217.424.2747 pcaswell@decaturil.gov	1 Gary K Anderson Plaza Decatur, IL 62523-1196	Jason Laney/ Jeff Oberhofer/ Glenn Spears	Dan Swidrak	CIPP - IL	3/15/18	$7,675,591.93	100%	23288	18", 20", 21", 30", 34", 37", 38", 39", 40", 42", 44", 45", 46", 48", 50", 52", 54", 56", 57", 58", 60", 66", 72", 84"
17022	**Masoutah, IL** Manhole & Pipe Rehab	Tom Quirk, City of Mascoutah P 618.566.2964 tquirk@mascoutah.com	3 West Main Street Mascoutah, IL 62258	Jeff Hirtz	Chris Vogt	CIPP - IL	4/2/17	$114,869.70	100%	974	8", 10"
17024	**Manhattan, KS** 2017 Sanitary Sewer CIPP	Norm Francis, City of Manhattan P 785.587.4583 francisn@cityofmhk.com	1101 Poyntz Ave. Manhattan, KS 66502	Danny Brown	Randy Mather	CIPP - KS	10/17/17	$483,605.00	100%	21932	8"
17025.01	**Indianapolis, IN** 92TU00126 White River CCS Phase 3 Rehab	Shari Foster, Citizens Energy Group P 317.429.3982 sfoster@CitizensEnergyGroup.com	2020 N. Meridian St. Indianapolis, IN 46202	Bill Siebert	Chris Vogt	CIPP - IN	12/29/17	$1,445,520.27	100%	1498	15", 24", 66", 69"
17025.02	**Indianapolis, IN** 92RR02608 King Ave/Jackson St. LDSR	Shari Foster, Citizens Energy Group P 317.429.3982 sfoster@CitizensEnergyGroup.com	2020 N. Meridian St. Indianapolis, IN 46202	Bill Siebert	Chris Vogt	CIPP - IN	12/29/17	$1,959,956.76	100%	2874	24", 30", 32", 38", 42", 48", 51", 57"
17025.04	**Indianapolis, IN** 92RR02601 Sutherland Ave. FM Discharge	Shari Foster, Citizens Energy Group P 317.429.3982 sfoster@CitizensEnergyGroup.com	2020 N. Meridian St. Indianapolis, IN 46202	Bill Siebert	Chris Vogt	CIPP - IN	6/3/19	$3,778,161.47	100%	1566	42", 48"
17025.05	**Indianapolis, IN** 92RR02605 West 81st Street	Shari Foster, Citizens Energy Group P 317.429.3982 sfoster@CitizensEnergyGroup.com	2020 N. Meridian St. Indianapolis, IN 46202	Bill Siebert	Chris Vogt	CIPP - IN	12/29/17	$169,153.40	100%	1032	15"
17025.06	**Indianapolis, IN** 92RR02603 South Kentucky	Shari Foster, Citizens Energy Group P 317.429.3982 sfoster@CitizensEnergyGroup.com	2020 N. Meridian St. Indianapolis, IN 46202	Bill Siebert	Chris Vogt	CIPP - IN	12/29/17	$416,460.67	100%	1005	24", 26"
17025.07	**Indianapolis, IN** 92RR02606, East Raymond St.	Shari Foster, Citizens Energy Group P 317.429.3982 sfoster@CitizensEnergyGroup.com	2020 N. Meridian St. Indianapolis, IN 46202	Bill Siebert	Chris Vogt	CIPP - IN	12/29/17	$258,496.75	100%	1355	21"
17025.08	**Indianapolis, IN** Southport Rd.	Shari Foster, Citizens Energy Group P 317.429.3982 sfoster@CitizensEnergyGroup.com	2020 N. Meridian St. Indianapolis, IN 46202	Bill Siebert	Chris Vogt	CIPP - IN	12/29/17	$1,740,472.80	100%	2642	30", 36"
17025.09	**Indianapolis, IN** White River Extra	Shari Foster, Citizens Energy Group P 317.429.3982 sfoster@CitizensEnergyGroup.com	2020 N. Meridian St. Indianapolis, IN 46202	Bill Siebert	Chris Vogt	CIPP - IN	12/29/17	$641,929.46	100%	1030	15", 36", 54"
17025.10	**Indianapolis, IN** Fall Creek	Shari Foster, Citizens Energy Group P 317.429.3982 sfoster@CitizensEnergyGroup.com	2020 N. Meridian St. Indianapolis, IN 46202	Bill Siebert	Chris Vogt	CIPP - IN	3/21/18	$776,215.44	100%	716	42", 48"
17025.11	**Indianapolis, IN** Lower Pogues	Shari Foster, Citizens Energy Group P 317.429.3982 sfoster@CitizensEnergyGroup.com	2020 N. Meridian St. Indianapolis, IN 46202	Bill Siebert	Chris Vogt	CIPP - IN	9/27/19	$3,638,545.89	100%	4196	36", 48", 66", 72"
17025.13	**Indianapolis, IN** Merrill Street	Shari Foster, Citizens Energy Group P 317.429.3982 sfoster@CitizensEnergyGroup.com	2020 N. Meridian St. Indianapolis, IN 46202	Bill Siebert	Chris Vogt	CIPP - IN	4/30/19	$2,504,680.15	100%	3555	15", 18", 21"x30", 24", 24"x36", 26", 30", 36", 36"x48", 36"x54",40"x55", 48"
17025.14	**Indianapolis, IN** Plant Bypass Discharge	Shari Foster, Citizens Energy Group P 317.429.3982 sfoster@CitizensEnergyGroup.com	2020 N. Meridian St. Indianapolis, IN 46202	Bill Siebert	Chris Vogt	CIPP - IN	12/29/17	$1,042,871.70	100%	1824	48"
17025.15	**Indianapolis, IN** CSO 012 Area Sewer Rehab	Shari Foster, Citizens Energy Group P 317.429.3982 sfoster@CitizensEnergyGroup.com	2020 N. Meridian St. Indianapolis, IN 46202	Bill Siebert	Chris Vogt	CIPP - IN	12/29/17	$970,630.42	100%	5403	12", 15", 20", 24", 30"
17025.16	**Indianapolis, IN** Steeple Chase Storm Sewer	Shari Foster, Citizens Energy Group P 317.429.3982 sfoster@CitizensEnergyGroup.com	2020 N. Meridian St. Indianapolis, IN 46202	Bill Siebert	Chris Vogt	CIPP - IN	12/29/17	$26,010.00	100%	170	24"
17025.18	**Indianapolis, IN** CSO CCS Rehab	Shari Foster, Citizens Energy Group P 317.429.3982 sfoster@CitizensEnergyGroup.com	2020 N. Meridian St. Indianapolis, IN 46202	Bill Siebert	Chris Vogt	CIPP - IN	11/7/18	$959,398.57	100%	3025	24", 27", 30", 36", 42"

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SAK CONSTRUCTION COMPLETED PROJECTS LIST

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17025.19	**Indianapolis, IN** Pleaseant Run	Shari Foster, Citizens Energy Group P 317.429.3982 sfoster@CitizensEnergyGroup.com	2020 N. Meridian St. Indianapolis, IN 46202	Bill Siebert	Chris Vogt	CIPP - IN	6/3/19	$1,120,453.41	100%	1651	12", 15", 36", 42", 48", 54"
17025.20	**Indianapolis, IN** Emergency CCTV	Shari Foster, Citizens Energy Group P 317.429.3982 sfoster@CitizensEnergyGroup.com	2020 N. Meridian St. Indianapolis, IN 46202	Bill Siebert	Chris Vogt	CIPP - IN	9/19/18	$137,661.00	100%	185	36"
17025.21	**Indianapolis, IN** East 30th Street	Shari Foster, Citizens Energy Group P 317.429.3982 sfoster@CitizensEnergyGroup.com	2020 N. Meridian St. Indianapolis, IN 46202	Bill Siebert	Chris Vogt	CIPP - IN	6/14/19	$1,188,514.46	100%	653	72"
17025.23	**Indianapolis, IN** East Pleasant	Shari Foster, Citizens Energy Group P 317.429.3982 sfoster@CitizensEnergyGroup.com	2020 N. Meridian St. Indianapolis, IN 46202	Bill Siebert	Chris Vogt	CIPP - IN	8/6/19	$1,311,818.97	100%	3901	20", 24", 20" x 30", 30", 42", 48"
17025.25	**Indianapolis, IN** Ohio-Penn	Shari Foster, Citizens Energy Group P 317.429.3982 sfoster@CitizensEnergyGroup.com	2020 N. Meridian St. Indianapolis, IN 46202	Bill Siebert	Chris Vogt	CIPP - IN	3/25/20	$4,111,530.01	100%	5615	24", 30", 36", 54"
17025.27	**Indianapolis, IN** Penn-Troy	Shari Foster, Citizens Energy Group P 317.429.3982 sfoster@CitizensEnergyGroup.com	2020 N. Meridian St. Indianapolis, IN 46202	Bill Siebert	Chris Vogt	CIPP - IN	4/20/21	$2,663,502.32	100%	6123	24", 36"
17025.29	**Indianapolis, IN** LeGrande and Naomi	Shari Foster, Citizens Energy Group P 317.429.3982 sfoster@CitizensEnergyGroup.com	2020 N. Meridian St. Indianapolis, IN 46202	Bill Siebert	Chris Vogt	CIPP - IN	7/9/20	$638,477.25	100%	2397	20", 24", 30"
17025.30	**Indianapolis, IN** Lockburn and Werges	Shari Foster, Citizens Energy Group P 317.429.3982 sfoster@CitizensEnergyGroup.com	2020 N. Meridian St. Indianapolis, IN 46202	Bill Siebert	Chris Vogt	CIPP - IN	7/1/20	$567,071.71	100%	2439	24"
17025.31	**Indianapolis, IN** Madison	Shari Foster, Citizens Energy Group P 317.429.3982 sfoster@CitizensEnergyGroup.com	2020 N. Meridian St. Indianapolis, IN 46202	Bill Siebert	Chris Vogt	CIPP - IN	10/16/19	$127,754.01	100%	491	15"
17025.32	**Indianapolis, IN** Michigan & Columbine	Shari Foster, Citizens Energy Group P 317.429.3982 sfoster@CitizensEnergyGroup.com	2020 N. Meridian St. Indianapolis, IN 46202	Bill Siebert	Chris Vogt	CIPP - IN	12/6/19	$48,282.90	100%	458	8", 15"
17025.33	**Indianapolis, IN** Springmill Rd.	Shari Foster, Citizens Energy Group P 317.429.3982 sfoster@CitizensEnergyGroup.com	2020 N. Meridian St. Indianapolis, IN 46202	Bill Siebert	Chris Vogt	CIPP - IN	12/6/19	$36,637.20	100%	572	8"
17025.34	**Indianapolis, IN** 40th & Graham	Shari Foster, Citizens Energy Group P 317.429.3982 sfoster@CitizensEnergyGroup.com	2020 N. Meridian St. Indianapolis, IN 46202	Bill Siebert	Chris Vogt	CIPP - IN	2/28/20	$96,110.00	100%	1209	12"
17025.35	**Indianapolis, IN** 30th & Fall Creek	Shari Foster, Citizens Energy Group P 317.429.3982 sfoster@CitizensEnergyGroup.com	2020 N. Meridian St. Indianapolis, IN 46202	Bill Siebert	Chris Vogt	CIPP - IN	12/6/19	$69,371.50	100%	383	10"
17025.36	**Indianapolis, IN** 4300 Burwood Drive	Shari Foster, Citizens Energy Group P 317.429.3982 sfoster@CitizensEnergyGroup.com	2020 N. Meridian St. Indianapolis, IN 46202	Bill Siebert	Chris Vogt	CIPP - IN	12/6/19	$20,344.70	100%	160	12"
17025.38	**Indianapolis, IN** 1-70 Downtown Sewer Preparation	Shari Foster, Citizens Energy Group P 317.429.3982 sfoster@CitizensEnergyGroup.com	2020 N. Meridian St. Indianapolis, IN 46202	Bill Siebert	Chris Vogt	CIPP - IN	5/8/20	$210,361.30	100%	869	15", 18", 48"
17025.40	**Indianapolis, IN** Pleasant Run Diversion Rehab	Shari Foster, Citizens Energy Group P 317.429.3982 sfoster@CitizensEnergyGroup.com	2020 N. Meridian St. Indianapolis, IN 46202	Bill Siebert	Chris Vogt	CIPP - IN	9/30/20	$5,187,641.90	100%	3680	10", 15", 33", 42", 54", 57", 58", 60", 66"
17025.41	**Indianapolis, IN** Nowland Ave Emergency Lining	Shari Foster, Citizens Energy Group P 317.429.3982 sfoster@CitizensEnergyGroup.com	2020 N. Meridian St. Indianapolis, IN 46202	Bill Siebert	Chris Vogt	CIPP - IN	9/30/20	$129,145.00	100%	425	24"
17025.43	**Indianapolis, IN** Golden Eagles & I-74	Shari Foster, Citizens Energy Group P 317.429.3982 sfoster@CitizensEnergyGroup.com	2020 N. Meridian St. Indianapolis, IN 46202	Bill Siebert	Chris Vogt	CIPP - IN	3/15/21	$50,001.60	100%	426	10"
17025.44	**Indianapolis, IN** East 21st Force Main Discharge Repair	Shari Foster, Citizens Energy Group P 317.429.3982 sfoster@CitizensEnergyGroup.com	2020 N. Meridian St. Indianapolis, IN 46202	Bill Siebert	Chris Vogt	CIPP - IN	1/6/21	$69,049.40	100%	106	18"
17025.49	**Indianapolis, IN** CSO 077	Shari Foster, Citizens Energy Group P 317.429.3982 sfoster@CitizensEnergyGroup.com	2020 N. Meridian St. Indianapolis, IN 46202	Bill Siebert	Chris Vogt	CIPP - IN	10/20/21	$236,736.50	100%	1292	12", 24"
17025.52	**Indianapolis, IN** Thermoform Pilot	Shari Foster, Citizens Energy Group P 317.429.3982 sfoster@CitizensEnergyGroup.com	2020 N. Meridian St. Indianapolis, IN 46202	Bill Siebert	Chris Vogt	CIPP - IN	9/17/21	$57,039.00	100%	462	12"
17025.53	**Indianapolis, IN** Pleasant Run	Tracey Black, Citizens Energy Group P 317.294.8582 tblack@CitizensEnergyGroup.com	2020 N. Meridian St. Indianapolis, IN 46202	Bill Siebert	Chris Vogt	CIPP - IN	4/30/22	$8,504,041.13	100%	10081	10", 12", 15", 18", 20", 24", 36", 42", 48", 60", 66"
17025.55	**Indianapolis, IN** 49W Maryland	Shari Foster, Citizens Energy Group P 317.429.3982 sfoster@CitizensEnergyGroup.com	2020 N. Meridian St. Indianapolis, IN 46202	Bill Siebert	Chris Vogt	CIPP - IN	5/21/21	$92,800.70	100%	185	24"

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SAK CONSTRUCTION COMPLETED PROJECTS LIST

VP Job #	Project Name	Owner's Contact Information	Address	Superintendent	Project Manager	Type	Completed Date	Completed Amount	Percent Complete	Footage Complete	Diameters
17025.63	**Indianapolis, IN** Pleasant Run 2022	Tracey Black, Citizens Energy Group P 317.294.8582 tblack@CitizensEnergyGroup.com	2020 N. Meridian St. Indianapolis, IN 46202	Bill Siebert	Chris Vogt	CIPP - IN	10/1/22	$7,279,050.82	100%	6484	15", 18", 20", 21", 24", 30", 36", 42", 48", 54", 60", 78"
17038	**Overland Park, KS** The Vue, CIPP Lining	Bill Rexroat, Sub to McClan Construction 913.897.2850 bill@mcclanconstruction.com	McClan Construction, LLC PO Box 387 Stilwewell, KS 66085	Danny Brown	Randy Mather	CIPP - KS	8/31/17	$34,078.40	100%	1121	8"
17044	**Overland Park, KS** YRC Surface Parking Expansion	Ron Newman, Sub to Titan Built LLC 913.782.6700 rnewman@titanbuilt.com	11865 S. Conley Rd. Olathe, KS 66061	Danny Brown	Randy Mather	CIPP - KS	12/17/18	$8,150.00	100%	195	8"
17046	**Trenton, OH** MillerCoors Brewery Pipe Lining Project in Trenton, OH	Mike Samford, Sub to Vortex Industrial Solutions, LLC P 832-233-2309 mikes@nodigind.com	9155 Wallisville Rd. Houston, TX 77029	Chad Rusher/ Josh Grote	Bob Quackenbush	CIPP - OH	2/26/18	$544,914.17	100%	1752	4", 6", 10", 12", 15"
17048	**Kansas City, KS** 15" Storm on Turner Diagonal	Aaron Carter, Sub to Emery Sapp & Sons, Inc. 816.221.3500 Aaron.Carter@Emerysapp.com	140 Walnut Street Kansas City, MO 64106	Danny Brown	Randy Mather	CIPP - KS	9/30/17	$17,000.00	100%	104	15"
17054	**Waukee, IA** SS Collection System Rehab - Phase 3	Tim Royer, City of Waukee P 515.978.7920 troyer@waukee.org	230 W. Hickman Road Waukee, IA	Jeff Hirtz	Nick Pryor	CIPP - IA	4/2/18	$307,322.25	100%	5452	10", 12", 16", 21", 24"
17055	**Lawrence, KS** 2017 SS Rehab	Nicholas Hoyt, P.E., City of Lawrence - Utilities Department P 785. 832.7882 nhoyt@lawrenceks.org	6 East 6th St. Lawrence, KS	Danny Brown	Randy Mather	CIPP - KS	7/5/18	$1,309,668.08	100%	46581	8", 10", 12", 15", 18", 24"
17059.01	**Kalamazoo, MI** Botsford Yard	Stephanie Knight, Sub to AECOM Technical Services, Inc. P 919.461.1309 Stephanieknight@aecom.com	515 South Flower St, Suite 1050 Los Angeles, CA 90071	Jeff Hirtz	Cory Street	CIPP - MI	12/1/18	$409,075.00	100%	650	12", 42"
17061	**Davenport, IA** Duck Creek South Interceptor Rehabilitation Project	Brad Guy, City of Davenport P 563.327.5105 Bguy@ci.davenport.ia.us	226 West Fourth St. Davenport, IA 52801	Brad Schenning	Cory Street	CIPP - IA	3/1/19	$4,399,619.84	100%	23052	24", 30", 39", 42", 48"
17074	**Southport, IN** Crossgate Storm Sewer Rehab	Bill Leber, Wessler Engineering P 317-788-4551 bill@wesslerengineering.com	6901 Derbyshire Rd Southport, IN 46227	Bill Siebert	Chris Vogt	CIPP - IN	11/22/17	$63,934.00	100%	620	12", 15"
17079	**Decatur, IL** 2017-28, 2017 Trenchless Long Lining Repairs	Paul Caswell, City of Decatur P 217.424.2747 pcaswell@decaturil.gov	#1 Gary K Anderson Plaza Decatur, IL 62523	Jeff Hirtz	Nick Pryor	CIPP - IL	4/30/19	$660,179.93	100%	18329	8", 10", 12", 15", 30"
17081	**Lenexa, KS** Brookwood Place Storm Sewer	Tom Jacobs, City of Lenexa P 913.477.7644 tjacobs@lenexa.com	12350 W. 87th St. Pkwy Lenexa, KA 66215	Danny Brown	Randy Mather	CIPP - KS	6/25/18	$1,110,356.50	100%	6280	15", 18", 18"x21", 24", 28"x20" 30", 36", 38"x24", 42", 48", 54"
17090	**Blair, NE** Sanitary Sewer & Storm Sewer Pipe Lining	Allen Shoemaker, City of Blair P 402.426.4191 ars@blairnebraska.org	218 S 16th St. Blair, NE 68008	Danny Brown	Randy Mather	CIPP - NE	5/22/18	$51,809.00	100%	437	18"
17096	**Robinson, IL** Marathon Reginery	Alan Lake, Sub to HydroChemPSC P 618-553-9155 alan.lake@hydrochempsc.com	PO Box 7601 Springfield, OH 45501	Jeff Hirtz	Nick Pryor	CIPP - IL	1/31/18	$103,750.00	100%	93	24"
17103	**Bonner Springs, KS** CIPP 2017	Laura Munro, City of Bonner Springs P 913.422.7570 lmunro@bonnersprings.org	205 E. 2nd St. Bonner Springs, KS 66012	Jeff Hirtz	Nick Pryor	CIPP - KS	3/12/19	$136,378.00	100%	4474	8", 24"
17106	**Wyandotte County, KS** 2017 Sanitary Sewer R&R #1	Kris Finger, Unified Government of Wyandotte County P 913.573.5422 kfinger@wycokck.org	701 N. 7th St. Kansas City, KS 66101	Jeff Hirtz	Nick Pryor	CIPP - KS	3/31/20	$1,173,391.33	100%	22896	8", 10", 12", 15", 18", 21", 24", 36", 48"
17108	**Augusta, KS** Sanitary Sewer Rehabilitation Basin "A"	Eric Burris, City of Augusta P 316-775-4535 eburris@augustagov.org	113 E. 6th Ave. Augusta, KS 67010	Jeff Hirtz	Nick Pryor	CIPP - KS	12/31/19	$1,790,876.45	100%	31785	6", 8", 12"
18001	**Decatur, IL** 2017 SE 36" Sewer Rehab	Don Miller, Sanitary District of Decatur P 217.422.6931 DonM@sddcleanwater.org	501 Dipper Lane Decatur, IL 62522	Jason Laney	Nick Pryor	CIPP - KS	9/30/18	$1,179,613.00	100%	6964	36", 48"
18002	**Kansas City, MO** Blue River South Areas 4 & 5 - I/I Reduction Project - Phase 1	John Dougherty, Sub to Kissick Construction Co., Inc. P 816.363.5530 jdougherty@kissickco.com	8131 Indiana Ave. Kansas City, MO 64132	Danny Brown	Randy Mather	CIPP - KS	1/22/19	$671,936.45	100%	25791	8", 10", 12"
18004	**Rose Hill, KS** 2017 Sanitary Sewer Rehab	Jeff Murphy, Sub to Nowak Construction Co., Inc. P 316-794-8898 jeff@nowakconstruction.com	200 S Goddard Rd P.O. Box 218 Goddard, KS 67052	Jeff Hirtz	Nick Pryor	CIPP - KS	5/31/18	$34,437.00	100%	1164	8"
18008	**Overland Park, KS** Titan, 17-118-01, Corporate Med	John Dougherty, Sub to Kissick Construction Company P 816.363.5530 jdougherty@kissickco.com	8131 Indiana Ave. Kansas City, MO 64132	Danny Brown	Randy Mather	CIPP - KS	5/14/18	$8,150.00	100%	210	8"
18013	**Lyons, KS** Municipal Sewer Line Project 2018	Chris Veatch, City of Lyons P 620.257.3054	201 West Main Lyons, KS 67554	Jeff Hirtz	Nick Pryor	CIPP - KS	6/30/18	$39,500.00	100%	700	8"
18018	**Hutchinson, KS** Storm Sewer	Jeff Shaw, Sub to APAC P 620.662.2112 Jeff.Shaw@apac.com	1600 N. Lorraine, Suite 100 Hutchinson, KS 67501	Jeff Hirtz	Nick Pryor	CIPP - KS	7/31/18	$70,976.10	100%	858	18"
18022	**Griffith, IN** Sanitary Interceptor Sewer Improvements	Rick Konopasek, Town of Griffith P 219.924.3838 rick.konopasek@griffith.in.gov	111 North Broad St Griffith, IN 46319	Bill Siebert	Chris Vogt	CIPP - IN	6/1/19	$3,992,949.25	100%	13090	36", 42"

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SAK CONSTRUCTION COMPLETED PROJECTS LIST

VP Job #	Project Name	Owner's Contact Information	Address	Superintendent	Project Manager	Type	Completed Date	Completed Amount	Percent Complete	Footage Complete	Diameters
18023	**Fairfield, IA** 2018 Sanitary Sewer CIPP Lining	Melanie CarLump Sumon, City of Fairfield P 641.472.6193 mcarLump Sumon@fairfieldiowa.gov	118 South Main St. Fairfield, IA 52556	Jeff Hirtz	Cory Street	CIPP - IA	7/22/18	$135,255.00	100%	3984	8", 12", 18"
18025	**Manhattan, KS** SS1801, 2018 CIPP Sanitary Sewer	Norm Francis, City of Manhattan P 785.587.4583 francisn@cityofmhk.com	1101 Poyntz Ave. Manhattan, KS 66502	Jeff Hirtz	Nick Pryor	CIPP - KS	7/31/18	$485,507.10	100%	21327	8", 10"
18029	**Bonner Springs, KS** 2018 Pipe Lining	Ron Wyatt, City of Bonner Springs P 913.422.8117 rwyatt@bonnersprings.org	PO Box 38 205 East Second St. Bonner Springs, KS 66012	Jeff Hirtz	Nick Pryor	CIPP - KS	3/28/19	$83,484.50	100%	3791	8"
18033	**Sioux Falls, SD** 2018 CIPP Sewer Lining & MH Rehab	John Osman, City of Sioux FalLump Sum P 605.368.8640 josman@siouxfalLump Sum.org	224 West Ninth Street Sioux Falls, SD 57117-7402	Jason Laney	Cory Street	CIPP - SD	9/1/18	$1,942,527.55	100%	5984	6", 10", 18", 24", 36"
18034	**Lenexa, KS** Storm Drainage Repairs Monrovia St., Rhodes Cir, Hauser St.	Jim Walker, Sub to Blue Niles P 816.505.1302 Contact Email	601 Spratley St. Birmingham, MO 64161	Danny Brown	Randy Mather	CIPP - KS	7/15/18	$189,588.00	100%	1023	18", 24", 30", 36", 42", 48"
18036	**St. Paul, MN** Metropolitan Council Contract Number 17P030, Project Number 807635	Kim Sanders, Metropolitan Council P 651.602.4616 kimberly.sanders@metc.state.mn.us	390 Robert Street North Saint Paul, MN 55101	Jason Laney	Cory Street	CIPP - MN	4/1/19	$2,501,744.27	100%	3543	36", 42"
18044	**Kansas City, KS** Sumner Academy Renovation	Jarrod Warner, Sub to Rodriguez Mechanical Contractors, Inc. P 913.281.1814 Contact Email	541 South 11th Street Kansas City, MO 66105	Danny Brown	Randy Mather	CIPP - KS	11/14/18	$24,990.00	100%	462	8", 10"
18054	**Lawrence, KS** 2018 Sanitary Sewer Rehab	Nicholas Hoyt, City of Lawrence - Utilities Dept. P Contact Phone Number Contact Email	6 East Sixth St. Lawrence, KS 66044	Danny Brown	Randy Mather	CIPP - KS	12/19/19	$1,668,087.05	100%	64467	8", 10", 12", 15"
18055	**Indianapolis, IN** CEG PR02, Pleasant Run, 1318023	Alan Dale, Sub to Bowen Engineering Corporation P 317.596.4686 adale@bowenengineering.com	8802 North Meridian St. Indianapolis, IN 46260	Bill Siebert	Chris Vogt	CIPP - IN	7/29/18	$228,187.44	100%	295	33"
18059	**Fort Leavenworth, KS** Pope Avenue Sewer	Contact Name, Sub to Rodriguez Mechanical Contractors, Inc. P Contact Phone Number Contact Email	541 South 11th Street Kansas City, MO 66105	Danny Brown	Randy Mather	CIPP - KS	8/31/18	$12,000.00	100%	213	6"
18062	**Lawrence, KS** Sanitary Sewer Rehab 1A	Kevin Black, Sub to Kissick Construction Company P 816-363-5530 kblack@kissickco.com	8131 Indiana Ave. Kansas City, MO 64132	Danny Brown	Nick Pryor	CIPP - KS	1/15/19	$59,101.75	100%	866	6", 8"
18065	**Sioux City, IA** 2018 Annual Utility Lining	Justin Pottoroff, City of Sioux City P 712.279.6315 jpottorff@souix-city-org	405 6th Street Sioux City, IA 51102	Jeff Hirtz	Nick Pryor	CIPP - IA	10/3/18	$131,218.00	100%	4030	8", 12"
18066	**Lenexa, KS** Brookwood Place Phase II **Storm drainage Improvements**	Tom Jacobs, City of Lenexa P 913.477.7644 tjacobs@lenexa.com	17101 W 87th St. Lenexa, KS 66219	Danny Brown	Nick Pryor	CIPP - KS	7/17/19	$1,115,616.23	100%	4529	15", 18", 21", 24", 30", 36", 42" 15"x21", 20"x28"
18067	**Westwood Hills, KS** Rainbow Blvd Storm Sewer Repair	Matt Rothermel, Sub to Kissick Construction Company P 816.363.5530 mrothermel@kissickco.com	8131 Indiana Ave. Kansas City, MO 64132	Danny Brown	Randy Mather	CIPP - KS	4/15/19	$109,800.00	100%	120	48"
18074	**Fort Riley, KS** FRUS1806PCCRFP5	Greg Rozman, Fort Riley Utility Services, Inc. P 785-802-7023 Gregory.Rozman@asusinc.com	8152 1st Drivision Road Fort Riley, KS 66442	Jeff Hirtz	Nick Pryor	CIPP - KS	5/31/19	$1,570,030.50	100%	34710	6", 8", 10", 12", 15", 21"
18074.01	**Fort Riley, KS** FRUS1806PCCRFP5, CIPP Phase 1	Ingrid Kussmaul, ASUS P 785.784.2444 M 785.370.1366 ingrid.kussmaul@asusinc.com	8152 1st Drivision Road Fort Riley, KS 66442	Danny Brown	Nick Pryor	CIPP - KS	8/26/19	$1,570,030.50	100%	35030	6", 8", 10", 12", 15", 21", 24"
18074.02	**Fort Riley, KS** FRUS1806PCCRFP5, CIPP Phase 2	Ingrid Kussmaul, ASUS P 785.784.2444 M 785.370.1366 ingrid.kussmaul@asusinc.com	8152 1st Drivision Road Fort Riley, KS 66442	Danny Brown	Nick Pryor	CIPP - KS	8/26/19	$1,732,961.00	100%	36264	6", 8"
18074.03	**Fort Riley, KS** FRUS1806PCCRFP5, CIPP Phase 3	Greg Rozman, Fort Riley Utility Services, Inc. P 785-802-7023 Gregory.Rozman@asusinc.com	8152 1st Drivision Road Fort Riley, KS 66442	Jeff Hirtz	Nick Pryor	CIPP - KS	10/10/19	$1,839,727.72	100%	22221	8", 10", 12", 15", 18", 21", 24"
18074.04	**Fort Riley, KS** FRUS1806PCCRFP5, CIPP Phase 4	Greg Rozman, Fort Riley Utility Services, Inc. P 785-802-7023 Gregory.Rozman@asusinc.com	8152 1st Drivision Road Fort Riley, KS 66442	Jeff Hirtz	Nick Pryor	CIPP - KS	12/15/20	$1,352,194.00	100%	32034	8", 10", 12", 21", 24"
18074.05	**Fort Riley, KS** FRUS1806PCCRFP5, CIPP Phase 5	Greg Rozman, Fort Riley Utility Services, Inc. P 785-802-7023 Gregory.Rozman@asusinc.com	8152 1st Drivision Road Fort Riley, KS 66442	Jeff Hirtz	Nick Pryor	CIPP - KS	7/30/21	$1,805,580.00	100%	32578	8", 10", 12", 15", 18", 21"
18095	**Fairmont City, IL** Cookson SS Rehab Collinsville	Chad Ross, Village of Fairmont City P 314.241.6300 Contact Email	2601 North 41st St Fairmont City, IL 62201	Alan Stuhlsatz	Travis Jerrels	CIPP - IL	1/17/19	$55,771.00	100%	329	24"
18101	**Conway Springs, KS** Bid Package No. 4 - Distribution System Improvements	Annie Jones, Sub to SB Wyatt Contracting, Inc. P 816.322.6557 sbwyattcontracting@sbwyatt.com	18017 S State Rt Y Belton, MO 64012	Jeff Hirtz	Nick Pryor	CIPP - KS	12/31/18	$21,712.00	100%	236	8"
18112	**Shawnee, KS** **2019 Stormwater Pipe Repair**	Jerry Wiedenmann, Sub to Wiedenmann, Inc. P 816.322.1125 jerry@wiedenmanninc.com	950 N Scott Belton, MO 64012	Jeff Hirtz	Nick Pryor	CIPP - KS	3/28/19	$341,681.77	100%	3281	15", 18", 21", 24", 27", 30", 36"

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SAK CONSTRUCTION COMPLETED PROJECTS LIST

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18113	**Trenton, OH** **MillerCoors Brewery 2018**	Patrick LeClair, Sub to Vortex Industrial Solutions, LLC 616.502.2507 pleclair@vortexcompanies.com	10200 US Hwy 92 E, Tampa, FL 33610	Josh Grote	Bob Quackenbush	CIPP - OH	9/11/19	$127,514.70	100%	2159	8", 12", 15", 18", 24"
18117	**Wyandotte County, KS** 2018 Sanitary Sewer Rehabilitation Project	Joe Barnes, Unified Government of Wyandotte P 913.573.1353 jbarnes@wycokck.org	701 N. 7th St. Kansas City, KS 66101	Jeff Hirtz	Nick Pryor	CIPP - KS	1/21/20	$1,139,532.06	100%	28588	8", 10", 12", 15", 18", 24", 48"
19005	**Overland Park, KS** Shamrock Trading	Brandon Moris, Johnson County Wastewater P 913.207.5234 Brandon.Morris@jcw.org	4800 Nall Avenue Mission, KS 66202	Danny Brown	Brent Adams	CIPP - KS	6/13/19	$7,875.00	100%	90	8"
19007	**Wichita, KS** 2019 Sanitary Sewer Rehab	Jeff Terhune, City of Wichita P 316.268.4046 jterhune@wichita.gov	455 North Main St Wichita, KS 67202	Jeff Hirtz	Nick Pryor	CIPP - KS	9/24/19	$570,448.00	100%	14006	8", 10", 15", 18", 36"
19011	**Milwaukee, WI** 2018 MillerCoors Brewery Pipe Lining Project	Patrick LeClair, Sub to Vortex P 616-502-2507 pleclair@vortexcompanies.com	3939 W. Highland Blvd, Milwaukee, WI 53201	Brad Schenning	Chris Vogt	CIPP - WI	7/31/19	$150,763.80	100%	459	8", 10", 18", 24"
19012	**Granite City, IL** W912P9-18-D-0014	Randy Jenkins, Sub to ARDL, Inc. P 618.731.4761 rjenkins@ardlinc.com	400 Aviation Drive Mount Vernon, IL	Jason Laney	Travis Jerrels	CIPP - IL	11/6/20	$649,480.83	100%	1163	48"x24", 52"x31.5"
19024	**Lenexa, KS** Cedars Storm Drainage	Scott Wolters, Sub to VF Anderson Builders, LLC P 816.935.9852 vfabuilders@yahoo.com	19209 E 231st Street Harrisonville, MO 64701	Jeff Hirtz	Nick Pryor	CIPP - KS	11/12/20	$868,584.25	100%	7925	15", 18", 21", 24", 30", 36", 42"
19033	**Manhattan, KS** SS1901, 2019 Sanitary Sewer	Norm Francis, City of Manhattan P 785.587.4583 francisn@cityofmhk.com	1101 Poyntz Ave. Manhattan, KS 66502	Jeff Hirtz	Nick Pryor	CIPP - KS	8/26/19	$362,159.40	100%	16204	8"
19057	**Fairmont City, IL** CDBG FY18, Cookson Rd at 45th	Chad Ross, Village of Fairmont City P 314.241.6300 cross@twm-inc.com	600 Country Club View, Suite 1 Edwardsville, IL 62025	Alan Stuhlsatz	Travis Jerrels	CIPP - IL	9/19/20	$59,503.00	100%	440	15", 24"
19059	**Hubbard, IA** Phase 2 Sanitary Sewer Lining	Robert Imsland, City of Hubbard P 641-864-3187 imslandcityhub@gmail.com	323 E Maple St Hubbard, IA 50122	Alan Stuhlsatz	Chris Vogt	CIPP - IA	12/2/19	$302,490.00	100%	7060	8"
19062	**Fort Riley, KS** IDIQ Contruction Contract	Brian Petersen, Sub to Olgoonik Diversified Services P 785.784.8444 bpeterson@olgoonik.com	1861A H Street Fort Riley, KS 66442	Jeff Hirtz	Nick Pryor	CIPP - KS	8/6/19	$46,550.00	100%	330	24"
19068	**Marion, IA** 2019 Sanitary Sewer Sliplining	Jacob Hahn, City of Marion P 319-743-6340 jhahn@cityofmarion.org	1225 6th Avenue, Suite 200 Marion, IA 52302	Alan Stuhlsatz	Chris Vogt	CIPP - IA	11/7/19	$196,500.65	100%	7701	8", 10"
19073	**Lawrence, KS** Sanitary Ph 2	Luke Porter, Sub to Kissick Construction Company P 816-363-5530 lporter@kissickco.com	8131 Indiana Ave. Kansas City, MO 64132	Jeff Hirtz	Nick Pryor	CIPP - KS	4/13/20	$15,741.25	100%	245	8"
19076	**Cahokia, IL** Sanitary Sewr Rehab FY 18	Rory Morgan, Village of Cahokia P 618.301.2160 rmorgan@cahokiaillinois.org	201 W 4th St Cahokia, IL 62206	Alan Stuhlsatz	Travis Jerrels	CIPP - IL	11/12/20	$69,573.45	100%	561	8", 15"
19078	**Lenexa, KS** Lakeview Storm Drainage	Marcus Linaweaver, Sub to Linaweaver P 913-351-3474 marcus@linaweaver.com	719 E. Gilman Rd. Lansing KS 66043	Jeff Hirtz	Nick Pryor	CIPP - KS	1/18/21	$324,629.50	100%	1943	15", 18", 24", 30", 36", 32"x24", 48"x36", 54"x42"
19087	**Mission Hill, KS** Ensley Lane 63rd to Mission Dr.	Dennis Langley, Sub to Langley Muehlberger Concrete Construction P 913.371.1070 dprjc5@gmail.com	54 N 10th Street Kansas City, KS 66102	Danny Brown	Brent Adams	CIPP - KS	9/19/19	$23,500.00	100%	55	24"
19090	**Decatur, IL** McKinley Avenue Sewer Rehabilitation City Project 2017-22 L17-5498	Paul Caswell, City of Decatur P 217-424-2747 pcaswell@decaturil.gov	1 Gary K Anderson Plaza Decatur, IL 62523-1196	Jason Laney	Nick Pryor	CIPP - IL	11/12/20	$5,286,444.96	100%	11976	34", 36", 42", 48", 54", 60", 63", 68", 72"
19091	**Hays, KS** Sanitary Sewer CIPP Lining, 2019-01	John Braun, City of Hays P 785.623.0680 Contact Email	1002 Vine Street Hays, KS 67601	Danny Brown	Brent Adams	CIPP - KS	12/9/19	$391,411.50	100%	16333	8", 10"
19092	**Fort Leavenworth, KS** Museum Area Sewer	Pat Wheeler, Sub to Rodriguez Mechanical Contractors P 913-281-1814 pat@rmckc.com	541 S 11 St. Kansas City, KS 66105	Jeff Hirtz	Nick Pryor	CIPP - KS	11/1/19	$65,481.00	100%	1606	6", 8"
19093	**Leavenworth, KS** Thornton St.	Luke Porter, Sub to Kissick Construction Company P 816-363-5530 lporter@kissickco.com	8131 Indiana Ave. Kansas City, MO 64132	Jeff Hirtz	Nick Pryor	CIPP - KS	1/31/21	$168,513.00	100%	4360	8", 10"
19096	**Lenexa, KS** 2019 Storm Sewer Lining Project	Tom Jacobs, City of Lenexa P 913-477-7500 tjacobs@lenexa.com	17101 W. 87th St. Lenexa KS 66219	Jeff Hirtz	Nick Pryor	CIPP - KS	5/14/20	$570,646.40	100%	6958	15"
19101	**Mission Woods, KS** KS - 2019 CIPP	John Sullivan, City of Westwood HillLump Sum, KS P 913.207.1214 john.sullivan@westwoodks.org	2545 W 47th St. Westwood, KS 66205	Danny Brown	Brent Adams	CIPP - KS	12/3/19	$76,373.00	100%	384	12", 18", 36"
19107	**Red Wing, MN** 2019 Sewer Recon, Levee Rd, CIPP	Bob Stark, City of Red Wing P 651-385-5112 bob.stark@ci.red-wing.mn.us	229 Tyler Road North Red Wing, MN 55066	Jason Laney	Nick Pryor	CIPP - MN	3/9/20	$455,284.00	100%	2740	30"

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19113	**Franklin, IN** Sanitary Sewer Lining	Brad Gentry, Sub to IWM Consulting P 317-968-9256 bgentry@iwmconsult.com	7428 Rockville Rd Indianapolis, IN 46214	Bill Siebert	Chris Vogt	CIPP- IN	12/19/19	$112,307.00	100%	1279	8", 12"
19123	**Cicero, IN** Cicero, I & I Reduction	Jeff Trueblood, Sub to 3D Company P 765-288-3326 jtrueblood@3dcompanyinc.com	3200 East CR 350 North Muncie, IN 47303	Alan Stuhlsatz	Chris Vogt	CIPP-IN	9/29/20	$333,283.25	100%	10912	6", 8", 10", 12"
19123.01	**Cicero, IN** 24" Storm Sewer	Terry Cooper, Town of Cicero P 3174--984-4833 tcooper@townofcicero.in.gov	1159 Stringtown Rd Cicero, IN 46034	Alan Stuhlsatz	Chris Vogt	CIPP-IN	6/30/20	$47,775.00	100%	325	24"
19129	**Brooklyn Park, MN** Brooklyn Park & Cham	Tom Soucek, Sub to S.M. Hentges & Sons, Inc. P 952-452-9556 tom.soucek@smhentges.com	650 Quaker Ave. Jordan, MN 55352	Jason Laney	Nick Pryor	CIPP-MN	12/15/21	$1,727,588.41	100%	5158	60", 66"
19130	**Caseyville Township, IL** 2019 Sewer Main Rehab	Randy LePere, Township of Caseyville P 618.632.2414 relepere@ctwastewater.org	1 Ecology Dr O'Fallon, IL 62269	Alan Stuhlsatz	Travis Jerrels	CIPP-IL	4/27/20	$382,997.50	100%	9480	8"
19133	**Indianola, IA** Sewer Main & Lateral Rehab	Rick Graves, City of Indianola P 515-962-5284 rgraves@indianolaiowa.gov	11870 Hoover St Indianola, IA 50125	Alan Stuhlsatz	Chris Vogt	CIPP-IA	5/4/20	$66,640.00	100%	2380	8"
20005	**Wyandotte County, KS** 2019 Sanitary Sewer	Jason Adkins, Sub to Blue Nile Contractors, Inc. P 816.656.6070 jason@bluenilecontractors.com	601 Spratley St. Birmingham, MO 64161	Danny Brown	Brent Adams	CIPP-KS	7/23/20	$725,400.00	100%	1850	36"
20006	**Shawnee, KS** 2020 Storm Water	Dan Forbes, Sub to Wiedenmann, Inc. P 816.322.1125 dan@wiedenmanninc.com	950 N Scott Belton, MO 64012	Danny Brown	Brent Adams	CIPP-KS	12/15/20	$318,155.00	100%	2871	15", 18", 21", 24", 30"
20013	**Topeka, KS** Eastside Interceptor Rehab Seg 1	Daniel Shively, Sub to BRB Contractors P 785-290-1156 danieLump Sumhively@brbcontractors.com	3805 NW 25th St. Topeka, KS 66618	Jeff Hirtz	Nick Pryor	CIPP-KS	12/31/20	$996,590.81	100%	4268	42"
20023	**Hutchinson, KS** CIPP & MH Rehab	Jessica Lowe, City of Hutchinson P 620.694.2645 Jessica.Lowe@hutchgov.com	1500 South Plum Hutchinson, KS 67501	Danny Brown	Brent Adams	CIPP-KS	5/29/20	$906,296.00	100%	4588	27"
20025	**Carmel, IN** 2019 Sewer Lining, Contract 97	John Duffy, City of Carmel 831.620.2070	One Civic Drive Carmel, IN 46032	Bill Siebert	Chris Vogt	CIPP-IN	11/30/20	$734,974.00	100%	24133	8", 10", 12"
20027	**Porter County, IN** Old South Haven Stormwater	Michael Novotney, Porter County Dept of Development & Storm Water Mgmt P 219-465-3507 mnovotney@porterco.org	155 Indiana Ave Valparaiso, IN 46383	Brad Schenning	Chris Vogt	CIPP-IN	6/7/21	$4,002,354.37	100%	14500	12', 18", 24", 30", 36", 42", 48", 54", 60"
20028	**Ainsworth, NE** Wastewater Facility Improvements	Brad Miller, City of Ainsworth P 402-387-2494 ainswater@threeriver.net	606 E. 4th St. Ainsworth, NE 69210	Jeff Hirtz	Nick Pryor	CIPP-NE	8/28/20	$564,119.38	100%	18445	8", 10", 12"
20030	**Wayzata, MN** 2020 Sanitary Sewer Rehab	Jennifer Schumann, City of Wayzata (952)404-5371 jschumann@wayzata.org	299 Wayzata Blvd, W. Wayzata, MN 55391	Alan Stuhlsatz	Karl Bates	CIPP-MN	12/15/20	$210,894.38	100%	9336	8"
20032	**Holton, KS** 2020 Collection System Rehab; CIPP	Denny Ashcraft, City of Holton P 785.364.7973 dashcraft@holtonkansas.org	430 Pennsylvania Avenue Holton, KS 66436	Danny Brown	Brent Adams	CIPP-KS	6/18/20	$240,349.00	100%	9536	8", 10", 12"
20036	**Marion, IA** 2020 Sanitary CIPP Rehab	Jacob Hahn, City of Marion P 319-743-6340 jhahn@cityofmarion.org	1225 6th Avenue, Suite 200 Marion, IA 52302	Alan Stuhlsatz	Chris Vogt	CIPP-IA	7/13/20	$113,676.00	100%	3694	8", 10"
20040	**Delaware County, IN** Collection System Improvements	Rob Bellucci, Delaware County Regional WW District P 813-956-2768 rbellucci@contactcei.com	100 W. Main St, #211 Muncie,IN 47305	Alan Stuhlsatz	Chris Vogt	CIPP-IN	10/2/20	$525,041.50	100%	17680	8", 10", 12"
20042	**Kansas City, KS** Leavenworth & Way	Trevor Kratzberg, Sub to Lexeco P 816.223.8959 trevor@lexeco.com	5037 S 4th Street Leavenworth, KS 66048	Danny Brown	Brent Adams	CIPP-KS	9/15/20	$39,680.00	100%	40	36"
20045	**Williamsport, IN** WW System Improvement	Connor Swain, Sub to Midwest Mole P 317-607-4022 cswain@midwestmole.com	6814 W 350N Greenfield, IN 46140	Alan Stuhlsatz	Chris Vogt	CIPP-IN	10/16/20	$138,210.70	100%	4210	6", 8", 10"
20054	**Omaha, NE** 18th & Fort	Jesse Walz, Sub to L.G. Roloff Construction Co., Inc. P 531-600-6766 jessew@roloffinc.com	1819 Farnam Street Suite 601 Omaha, NE 68183	Jeff Hirtz	Nick Pryor	CIPP-NE	8/12/21	$230,252.00	100%	1706	8", 36"
20056	**Lakeville, MN** I&I Improvement, No. 20-22	Steven Grossman, City of Lakeville (952)985-2742 sgrossman@lakevillemn.gov	18400 Ipava Avenue Lakeville, MN 55044	Danny Brown	Karl Bates	CIPP-MN	12/15/20	$315,694.00	100%	13824	8", 9"
20058	**Topeka, KS** 12" CIPP	Darran Classen, PE, Sub to Arrowhead Contracting, Inc. P 913.481.0723 dclassen@arrowhead-usa.com	10981 Eicher Drive Lenexa, KS 66219	Danny Brown	Nick Pryor	CIPP-KS	7/3/20	$15,700.00	100%	173	12"
20066	**Lowell, IN** 2020 Street Improvements	Keith Kegebein, Sub to Dyer Construction Company P 219-713-3156 kkegebein@dyerconstruction.com	1716 Sheffield Ave Dyer, IN 46311	Brad Schenning	Chris Vogt	CIPP-IN	11/16/20	$124,534.00	100%	3044	12"

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SAK CONSTRUCTION COMPLETED PROJECTS LIST

VP Job #	Project Name	Owner's Contact Information	Address	Superintendent	Project Manager	Type	Completed Date	Completed Amount	Percent Complete	Footage Complete	Diameters
20072	**Baldwin City, KS** East Side Interceptor	Jeff Murphy, Sub to Nowak Construction Co. P 316.299.8934 jeff@nowakconstruction.com	200 S Goddard Rd Goddard, KS 67052	Danny Brown	Brent Adams	CIPP-KS	12/30/21	$19,754.00	100%	386	8"
20079	**Omaha, NE** MO Ave/Spring Lake Park	Brian Sorenson, Sub to L.G. Roloff Construction Co., Inc. P 531-600-6766 brians@roloffinc.com	1819 Farnam Street Suite 601 Omaha, NE 68183	Jeff Hirtz	Nick Pryor	CIPP-NE	5/4/21	$41,808.00	100%	393	10", 18"
20094	**Topeka, KS** Van Buren & Jackson St.	Tony Emerson, Sub to Emcon, Inc. P 785-862-7711 tony@emcon.us	620 SE Madison Topeka, KS 66607	Jeff Hirtz	Nick Pryor	CIPP-KS	4/30/21	$922,783.06	100%	4849	24", 36"
20098	**Lenexa, KS** Lenexa Ashley Park	Scott Wolters, Sub to VF Anderson Builders, LLC P 816.935.9852 vfabuilders@yahoo.com	17101 W. 87th St. Lenexa KS 66219	Danny Brown	Nick Pryor	CIPP-KS	3/29/21	$231,654.00	100%	2328	15", 18", 21", 24", 30", 36"
20101	**Kansas City, KS** Fairfax Trafficway Sewer Rehab	Steve Dailey, Fairfax Drainage District P 913.321.2260 spdailey@sbcglobal.net	1620 Fairfax Trafficway Kansas City, KS 66115	Danny Brown	Brent Adams	CIPP-KS	4/1/21	$324,175.20	100%	1593	36"
20108	**Spring Hill, KS** CDBG Sanitary Sewer Rehab	Todd Breuer, Sub to Utility Solutions P 913.662.7120 todd@manholerepairs.com	14612 Parallel Lane Basehor, KS 66007	Danny Brown	Brent Adams	CIPP-KS	2/5/21	$59,211.00	100%	2193	8"
20109	**Lawrence, KS** Quik Trip #268	Christopher Bradely, Sub to Excel Constructors P 913.927.3476 chris.bradley@excelconstructors.com	8041 W 47th Street Overland Park, KS 66203	Danny Brown	Brent Adams	CIPP-KS	11/25/20	$16,965.00	100%	45	15"
20121	**Topeka, KS** G-10-39 SS Improvements	Daniel Shively, Sub to BRB Contractors P 785-290-1156 danieLump Sumhively@brbcontractors.com	620 SE Madison Topeka, KS 66607	Danny Brown	Nick Pryor	CIPP-KS	8/19/21	$119,290.92	100%	664	30"
21007	**Wyandotte County, KS** Sanitary Sewer Repair	Contact Name, **Sub** to Rodriquez Mechanical Contractors P Contact Phone Number Contact Email	50 Market Street Kansas City, KS 66118	Danny Brown	Brent Adams	CIPP-KS	6/22/22	$1,248,390.55	100%	40543	8", 10", 12", 15", 18", 21", 24", 30", 36"
21011	**Topeka, KS** T-291066.04 Roosevelt St. Interceptor Munson	Ethan Meyer, City of Topeka P 316.670.4450 ethan.meyer@bartwest.com	3425 NW Waterworks Drive Topeka, KS 66606	Danny Brown	Brent Adams	CIPP-KS	6/28/21	$2,134,004.10	100%	3011	14", 18", 24", 36", 42",
21015	**Decatur, IL** South Shores Sewer Rehab	Don Miller, Sanitary District of Decatur P 217-422-6931 DonM@sddcleanwater.org	501 Dipper Lane Decatur, IL 62522	Jason Laney	Nick Pryor	CIPP-IL	5/25/22	$8,412,253.56	100%	17667	12", 18", 30", 36", 42", 47"x26" Eliptical
21038	**Manhattan, KS** 2021 CIPP SS	Norm Francis, City of Manhattan P 785.587.4583 francisn@cityofmhk.com	1101 Poyntz Ave. Manhattan, KS 66502	Danny Brown	Brent Adams	CIPP-KS	8/15/21	$559,997.60	100%	26796	8"
21039	**Gardner, KS** 2021 CIPP SS	Ric Gere, City of Gardner P 913.5688123 rgere@gardnerkansas.gov	1150 E Santa Fe Street Gardner, KS 66030	Danny Brown	Brent Adams	CIPP-KS	10/19/21	$353,567.50	100%	12092	8", 10"
21044	**Lawrence, KS** Sanitary Ph 2	Noah Gibson, Sub to Kissick Construction P 816.507.3368 noahg@kissickco.com	8131 Indiana Ave. Kansas City, MO 64132	Danny Brown	Brent Adams	CIPP-KS	6/30/21	$36,534.00	100%	624	6", 8"
21053	**Lawrence, KS** KU Sanitary Phase 3	Contact Name, Sub to Kissick Construction Company P Contact Phone Number Contact Email	8131 Indiana Ave. Kansas City, MO 64132	Danny Brown	Brent Adams	CIPP-KS	7/22/21	$119,965.00	100%	1718	6", 8", 10", 12"
21054	**Shawnee, KS** 49th & Quivira CMP Stormwater Repair	Scott Wolters, Sub to VF Anderson Builders, LLC P 816.884.3220 vfabuilders@yahoo.com	19209 E. 231st Street Harrisonville, MO 64701	Danny Brown	Brent Adams	CIPP-KS	11/10/21	$39,857.00	100%	451	15", 18"
21056	**Mission, KS** Lamar Ave & W 52nd St.	Noah Gibson, Sub to Kissick P 816.507.3368 noahg@kissickco.com	8131 Indiana Ave. Kansas City, MO 64132	Danny Brown	Brent Adams	CIPP-KS	7/23/21	$35,000.00	100%	160	12", 15"
21062	**Shawnee, KS** 2021 Stormwater Pipe	Jason Conklin, **Sub** to Infrastructure Solutions, LLC P 816.606.6280 jconklin@i-solutionsllc.com	9801 Renner Blvd., Suite 300 Lenexa, KS 66219	Danny Brown	Brent Adams	CIPP-KS	10/6/22	$414,350.25	100%	5060	12", 15", 18", 21", 24", 30"
21074	**Lenexa, KS** Lenexa Oak Hill Storm Drainage	Scott Walters, **Sub** to VF Anderson Builders, LLC P 816.935.9852 vfabuilders@yahoo.com	19209 E 231st Street Harrisonville, MO 64701	Danny Brown	Nick Pryor	CIPP-KS	3/15/22	$811,829.00	100%	5932	15", 18", 21", 24", 27", 30", 36", 42"
21079	**Independence Township, MI** Pipeline Mgmt, CIPP	David Lusky, Sub to Pipeline Management Co., Inc. P 248.685.1500 dlusky@pipeline.us.com	2673 E. Maple Road Milford, MI 48381	Alan Stuhlsatz	Nick Pryor	CIPP-MI	11/15/21	$59,046.00	100%	1562	8"
21084	**Omaha, NE** 19th, Jackson St. and St. Mary's Ave Cave-in	Jesse Walz, City of Omaha P 531.600.6766 jessew@roloffinc.com	10204 S. 152nd Street Omaha, NE 68138	TBD	Nick Pryor	CIPP-NE	11/18/21	$185,393.00	100%	420	36"
21085	**Topeka, KS** Fairview & Cedarcrest	Jeremy Schmidtein, Sub to Schmidtlein Excavating, Inc. P 785.357.7354 jeremys@schmidetleinexcavating.com	204 NE Rice Road Topeka, KS 66616	Danny Brown	Brent Adams	CIPP-KS	12/2/21	$70,516.00	100%	244	18"
21123	**Overland Park, KS** VF Anderson, 86th & Lamar	Scott Wolters, Sub to VF Anderson P 816.935.9852 vfabuilders@yahoo.com		Danny Brown	Brent Adams	CIPP - KS	11/30/21	$16,825.00	100%	320	14"x22", 18"

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SAK CONSTRUCTION COMPLETED PROJECTS LIST

VP Job #	Project Name	Owner's Contact Information	Address	Superintendent	Project Manager	Type	Completed Date	Completed Amount	Percent Complete	Footage Complete	Diameters
21131	**Richmond, IN** 2021 Sewer Lining Project, 164-2021	Elijah Welch, City of Richmond P 765.983.7483 ewelch@richmondindiana.gov	2380 Liberty Ave. Richmond, IN 47374	Bill Siebert	Chris Vogt	CIPP - IN	12/1/22	$402,349.15	100%	10891	8", 9", 10", 12", 18", 24"
21145	**Lenexa, KS** 2021 Pipe Lining Project, 90058	Tom Jacobs, City of Lenexa P 913.477.7644 tjacobs@lenexa.com	17101 W 87th St. Lenexa, KS 66219	Danny Brown	Brent Adams	CIPP - KS	8/11/22	$473,633.25	100%	4403	15", 18", 21", 24"
22001	**Vermillion County, IN** Next Composite, Duke Cayuga 42" Pipe	Andy Woest, Sub to Next Composite Solutions P 513.446.3347 andrew.woestman@duke-energy.com	3300N State Road 63 Cayuga, IN 47928	Cory Street	Cory Street	CIPP - IN	3/1/22	$15,618.06	100%	10	42"
22003	**Lenexa, KS** Lexington Plumbing, Sparrow Hawk College Blvd	Tim Swigart, Sub to Lexington Plumbing P 816.739.5113 tims@lexingtonplumbing.com	1620 Troost Avenue Kansas City, MO 64108	Danny Brown	Brent Adams	CIPP - KS	2/25/22	$67,430.00	100%	703	21"
22013	**Godfrey, IL** Plocher, 3952-002, ILAMW Lewis & Clark Sewer	Mike Carlson, Sub to Plocher Construction Company P 618.654.9408 mcarlson@plocherco.com	2808 Thole Plocher Rd. Highland, IL 62249	Alan Stuhlsatz	Travis Jerrels	CIPP - IL	8/18/22	$322,673.00	100%	9572	8", 10"
22034	**Trenton, OH** Vortex, MolsonCoors, CP-IO#130489 TRNCY19 Drns	Patrick LeClair, Sub to Vortex Industrial P 616-502-2507 pleclair@vortexcompanies.com	5910 Hartford St. Tampa, FL 33619	Brad Schenning	Chris Vogt	CIPP - OH	6/10/22	$502,880.00	100%	2159	8", 12", 15", 18", 20", 24"
22045	**Sauget, IL** Sanitary Sewer Lining, CDBG PY 2021, Phase VII	Mike Shillito, Village of Sauget P 636.328.4514	16296 Westwoods Business Dr. Ellisville, MO 63021	Alan Stuhlsatz	Travis Jerrels	CIPP - IL	6/15/22	$105,155.00	100%	185	36"
22046	**Sioux Falls, SD** **Cliff Ave. Improvements**	Ross Kuchta, City of Sioux Falls P 605.310.2533 rkuchta@stockwellengineers.com	801 Phillips Ave. Suite 100 Sioux Fall, SD 57104	Danny Brown	Brent Adams	CIPP - SD	7/22/22	$603,445.00	100%	346	72"
22048	**Merriam, KS** W Frontage Rd.	Whitney Yates, Sub to Miles Excavating, Inc. P 913.724.1934 whitneyy@milesexcavating.com	15063 State Ave. Basehor, KS 66007	Danny Brown	Brent Adams	CIPP - KS	10/17/22	$53,606.00	100%	137	15", 30"
22054	**Lakeville, MN** 2022 Inflow & Infiltration Improvement	Stephen Ferraro, City of Lakeville P 952.985.2793 sferraro@lakevillemn.gov	7570 179th St. West Lakeville MN 55044	Danny Brown	Nick Pryor	CIPP - MN	11/30/22	$518,163.00	100%	7804	9", 30"
22057	**Alton, IL** 18" CIPP Lining	Matt Burns, Sub to JP Burns Excavating, Inc. P 618.836.5558 matt@jpburnsexc.com	8287 Burns Rd. Plainview, IL 62685	Alan Stuhlsatz	Travis Jerrels	CIPP - IL	5/24/22	$30,800.00	100%	130	18"
22060	**Caseyville, IL** Capitol Oaks Sanitary Sewer Rehab Phase 4	Randy LePere, Caseyville Township P 618.632.2414 relepere@ctwastewater.org	1 Ecology Dr O'Fallon, IL 62269	Alan Stuhlsatz	Travis Jerrels	CIPP - IL	9/29/22	$321,523.25	100%	5521	8"
22081	**Granite City, IL** Coolidge Sewer Repair Granite City School	Eric Smith, Granite City School District P 618.451.5800 Ext. 2016 ericd.smith@gcsd0.net	3200 Maryville Rd. Granite City, IL 62040	Alan Stuhlsatz	Travis Jerrels	CIPP - IL	7/14/22	$30,800.00	100%	273	12"
22086	**Sioux Falls, SD** 6th & Cleveland CIPP	John Rennich, Sub to H & W Contractinc, LLC P 605.339.8834 estimator@h-wcontracting.com		James Brown	Brent Adams	CIPP - SD	10/14/22	$917,000.00	100%	456	78"
22098	**Peru, IL** Ameren Remediation Former MGP	Cody Lonas, Sub to O6 Environmental, LLC P 314.862.6671 cody.lonas06env.com	6311 Bartmer Industrial Dr. St. Louis, MO63130	Alan Stuhlsatz	Travis Jerrels	CIPP - IL	10/13/22	$145,700.00	100%	120	24"

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SAK Construction Safety Record Form

SAK Construction
864 Hoff Road
O'Fallon, MO 63366
Telephone: 636-385-1000
Fax: 636-385-1100

SAK™
Pipeline Infrastructure. Solved.™

Prepared by/title: Harry Miller, VP & Director of Safety Date prepared: 2/10/2023

Experience Modification Rates (EMR)

Year	Experience Modification Rate (EMR)
2010-2011	0.97
2011-2012	0.80
2012-2013	0.76
2013-2014	0.77
2014-2015	0.70
2015-2016	0.65
2016-2017	0.53
2017-2018	0.54
2018-2019	0.55
2019-2020	0.48
2020-2021	0.52
2022-2023	0.52

OSHA Incidence Rates

Year	Total Recordable Incidents	Total Hours Worked	OSHA Incidence Rate(RIR)
2009	5	191,456.26	5.2
2010	7	343,552.61	4.1
2011	16	520,464.03	6.1
2012	10	559,513.91	3.6
2013	12	612,328.92	3.9
2014	11	680,335.32	3.2
2015	13	749,758	3.5
2016	10	899,379	2.2
2017	12	956,649	2.5
2018	7	1,018,297	1.4
2019	11	1,084,999	2.0
2020	9	1,071,038	1.7
2021	4	1,132,283	0.7
2022	19	1,171,928	3.2

DART- Days Away, and Restricted or Transferred

Year	DART Cases	Total Hours Worked	DART Incidence Rate
2009	2	191,456.26	2.1
2010	5	343,552.61	2.9
2011	13	520,464.03	5.0
2012	6	559,513.91	2.1
2013	7	612,328.92	2.3
2014	6	680,335.32	1.8
2015	6	749,758	1.6
2016	3	899,379	0.7
2017	11	956,649	2.3
2018	2	1,018,297	0.4
2019	2	1,084,999	0.4
2020	5	1,071,038	0.9
2021	2	1,132,283	0.4
2022	7	1,171,928	1.2

Lost Workday Cases

Year	LWD Cases	Total Hours Worked	LWD Incident Rate
2009	0	191,456.26	0.00
2010	1	343,552.61	0.58
2011	7	520,464.03	2.69
2012	1	559,513.91	0.36
2013	4	612,328.92	1.31
2014	2	680,335.32	0.59
2015	2	749,758	0.53
2016	3	899,379	0.67
2017	4	956,649	0.84
2018	0	1,018,297	0.00
2019	1	1,084,999	0.18
2020	5	1,071,038	0.93
2021	1	1,132,283	0.18
2022	2	1,171,928	0.34

Incident Rates are Calcuated using this formula: # Cases X 200,000 / Man Hours Worked

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AIA Document A310™ – 2010

Bid Bond

CONTRACTOR:
(Name, legal status and address)
SAK Construction, LLC
864 Hoff Road
O'Fallon, MO 63366

OWNER:
(Name, legal status and address)
City of Ann Arbor
301 East Huron Street
Ann Arbor, MI 48104

SURETY:
(Name, legal status and principal place of business)
Travelers Casualty and Surety Company of America
One Tower Square
Hartford, CT 06183

Mail Notices To:
Travelers
Attn: Surety Claim Dept.
One Tower Square 2S1A
Hartford. CT 06183

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner, or other party shall be considered plural where applicable.

BOND AMOUNT: Five Percent (5%) of the Amount Bid

PROJECT: 2023 Sewer Lining Project

(Name, location or address, and Project number, if any)

The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (I) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

Signed and sealed this 7th day of September, 2023

Kathleen Ann Reed
(Witness) Kathleen Ann Reed, witness

Dana A Johnessee
(Witness) Dana A Johnessee, Witness

SAK Construction, LLC
(Principal) Boyd Hiatt (Seal)
(Title) Boyd Hiatt, Vice President

Travelers Casualty and Surety Company of America
(Surety) (Seal)
(Title) Andrew P. Thome, Attorney-in-Fact

TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA HARTFORD, CONN.

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ACKNOWLEDGEMENT FOR CONTRACTOR

ACKNOWLEDGEMENT FOR CONTRACTOR, IF LIMITED LIABILITY COMPANY

STATE OF **Missouri** }

COUNTY OF **St. Charles** }

ON THE **7th** DAY OF **September**, **2023**, BEFORE ME PERSONALLY APPEARED **Boyd Hirtz** TO ME KNOWN AND KNOWN TO ME TO BE THE **Vice President** OF **SAK Construction, LLC**, A LIMITED LIABILITY COMPANY, DESCRIBED IN AND WHO EXECUTED THE FOREGOING INSTRUMENT AND ACKNOWLEDGED TO ME THAT (S)HE EXECUTED THE FOREGOING INSTRUMENT AND ACKNOWLEDGED TO ME THAT (S)HE EXECUTED THE SAME AS AND FOR THE ACT AND DEED OF SAID LIMITED LIABILITY COMPANY.

KATHLEEN ANN REED
NOTARY PUBLIC - NOTARY SEAL
STATE OF MISSOURI
COMMISSIONED FOR LINCOLN COUNTY
MY COMMISSION EXPIRES AUG. 13, 2024
ID #20854191

Kathleen Ann Reed

Kathleen Ann Reed, Notary Public

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State of **Missouri**
County of **St. Louis**

On **9/7/2023**, before me, a Notary Public in and for said County and State, residing therein, duly commissioned and sworn, personally appeared **Andrew P. Thome** known to me to be Attorney-in-Fact of

Travelers Casualty and Surety Company of America

the corporation described in and that executed the within and foregoing instrument, and known to me to be the person who executed the said instrument in behalf of said corporation, and he duly acknowledged to me that such corporation executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, the day and year stated in this certificate above.

Dana A Johnessee, Notary Public

DANA A JOHNESSEE
NOTARY PUBLIC - NOTARY SEAL
STATE OF MISSOURI
COMMISSIONED FOR ST. LOUIS COUNTY
MY COMMISSION EXPIRES SEP. 20, 2025
ID #13516439

My Commission Expires:

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TRAVELERS

Travelers Casualty and Surety Company of America
Travelers Casualty and Surety Company
St. Paul Fire and Marine Insurance Company

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint **ANDREW P THOME** of **CHESTERFIELD**, **Missouri**, their true and lawful Attorney(s)-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this **21st** day of **April**, **2021**.

State of Connecticut

City of Hartford ss.

By: _____
Robert L. Raney, Senior Vice President

On this the **21st** day of **April**, **2021**, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of each of the Companies, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of said Companies by himself as a duly authorized officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission expires the **30th** day of **June**, **2026**

_____
Anna P. Nowik, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of each of the Companies, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, **Kevin E. Hughes**, the undersigned, Assistant Secretary of each of the Companies, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this **7th** day of **September**, **2023**

_____
Kevin E. Hughes, Assistant Secretary

To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.
Please refer to the above-named Attorney(s)-in-Fact and the details of the bond to which this Power of Attorney is attached.

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TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA

HARTFORD, CONNECTICUT 06183

FINANCIAL STATEMENT AS OF DECEMBER 31, 2022

CAPITAL STOCK $ 6,480,000

ASSETS		LIABILITIES & SURPLUS	
BONDS	$ 4,788,996,790	LOSSES	$ 1,385,257,132
STOCKS	102,639,111	LOSS ADJUSTMENT EXPENSES	133,864,803
CASH AND INVESTED CASH	20,110,068	COMMISSIONS	55,456,724
OTHER INVESTED ASSETS	5,661,540	OTHER EXPENSES	49,033,047
SECURITIES LENDING REINVESTED COLLATERAL ASSETS	25,805,872	TAXES, LICENSES AND FEES	16,807,425
INVESTMENT INCOME DUE AND ACCRUED	42,265,766	REINSURANCE PAYABLE ON PAID LOSSES AND LOSS ADJ EXPENSES	(1,738,793)
PREMIUM BALANCES	308,425,453	UNEARNED PREMIUMS	1,394,161,189
REINSURANCE RECOVERABLE	57,954,515	ADVANCE PREMIUM	3,880,400
NET DEFERRED TAX ASSET	68,131,600	POLICYHOLDER DIVIDENDS	18,122,229
CURRENT FEDERAL AND FOREIGN INCOME TAXES RECOVERABLE AND INTEREST	3,250,318	CEDED REINSURANCE NET PREMIUMS PAYABLE	73,928,911
GUARANTY FUNDS RECEIVABLE OR ON DEPOSIT	1,059,482	AMOUNTS WITHHELD / RETAINED BY COMPANY FOR OTHERS	23,586,276
RECEIVABLE FROM PARENTS, SUBSIDIARIES AND AFFILIATES	14,866,600	REMITTANCES AND ITEMS NOT ALLOCATED	5,082,055
OTHER ASSETS	963,374	PROVISION FOR REINSURANCE	6,464,384
		PAYABLE FOR SECURITIES LENDING	25,805,872
		RETROACTIVE REINSURANCE RESERVE ASSUMED	785,441
		OTHER ACCRUED EXPENSES AND LIABILITIES	188,614
		TOTAL LIABILITIES	$ 3,190,685,707
		CAPITAL STOCK	$ 6,480,000
		PAID IN SURPLUS	433,803,760
		OTHER SURPLUS	1,809,161,022
		TOTAL SURPLUS TO POLICYHOLDERS	$ 2,249,444,782
TOTAL ASSETS	$ 5,440,130,489	TOTAL LIABILITIES & SURPLUS	$ 5,440,130,489

STATE OF CONNECTICUT)

COUNTY OF HARTFORD) SS.

CITY OF HARTFORD)

MICHAEL J. DOODY, BEING DULY SWORN, SAYS THAT HE IS VICE PRESIDENT – FINANCE, OF TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA, AND THAT TO THE BEST OF HIS KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT STATEMENT OF THE FINANCIAL CONDITION OF SAID COMPANY AS OF THE 31ST DAY OF DECEMBER, 2022.

Michael J Doody

VICE PRESIDENT – FINANCE

SUBSCRIBED AND SWORN TO BEFORE ME THIS
17TH DAY OF MARCH, 2023

NOTARY PUBLIC

SUSAN M. WEISSLEDER
Notary Public
My Commission Expires November 30, 2027

SUSAN M. WEISSLEDER NOTARY PUBLIC CONNECTICUT

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UNITED STATES OF AMERICA

The State of Michigan

Department of Energy, Labor & Economic Growth

Lansing, Michigan

This is to Certifiy That

SAK CONSTRUCTION, LLC

a limited liability company existing under the laws of the State of MISSOURI was validly authorized to transact business in Michigan on the 9th day of September, 2009, in conformity with 1993 PA 23.

The company is authorized to transact in this state any business of the character set forth in its application which a domestic company formed under this act may lawfully conduct. This authority shall continue as long as the company retains its authority to transact such business in the jurisdiction of its organization, its authority to transact business in this state has not been suspended or revoked, and the company has not surrendered its authority to transact business in this state.

This certificate is in due form, made by me as the proper officer, and is entitled to have full faith and credit given it in every court and office within the United States.

In testimony whereof, I have hereunto set my hand, in the City of Lansing, this 9th day of September, 2009.

Director

Bureau of Commercial Services

GOLD SEAL APPEARS ONLY ON ORIGINAL

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SAK™
Pipeline Infrastructure. Solved.™

636.385.1000 tel
636.385.1100 fax
864 Hoff Road
O'Fallon, MO 63366
www.sakcon.com

January 31, 2023

To Whom It May Concern:

Joe Feuerborn, Vice President and General Manager of our CIPP Division is hereby authorized to sign bids, extend offers, submit proposals, and execute contracts on behalf of SAK Construction, LLC.

Boyd Hirtz, Vice President is hereby authorized to sign bids, extend offers, submit proposals, and execute contracts on behalf of SAK Construction, LLC.

Jerome P. Shaw, Jr.
President
SAK Construction, LLC

State of Missouri)

County of St. Charles)

On this 31st day of January, in the year 2023, before me, Kathleen Ann Reed, a notary public, personally appeared, Jerome P. Shaw, Jr. proved on the basis of satisfactory evidence to be the person whose name is subscribed to this instrument, and acknowledged he executed the same. Witness my hand and official seal.

Kathleen Ann Reed
NOTARY PUBLIC

KATHLEEN ANN REED
NOTARY PUBLIC - NOTARY SEAL
STATE OF MISSOURI
COMMISSIONED FOR LINCOLN COUNTY
MY COMMISSION EXPIRES AUG. 13, 2024
ID #20854191

SEAL

DocuSign Envelope ID: E6258E13-1F01-485C-91C3-A674AA7D7B6B

WRITTEN CONSENT
OF THE SOLE MANAGER OF
SAK CONSTRUCTION, LLC

Pursuant to Sections 347.083 of The Missouri Limited Liability Company Act and Section 5.3 of the Operating Agreement of SAK Construction, LLC, a Missouri limited liability company (the "Company"), the undersigned, being the sole manager of the Company, hereby adopts the following resolutions for the Company and consents to the taking of the actions therein described, such consent to have the same force and effect as a unanimous vote of the managers of the Company at a meeting duly held on the date hereof:

RESOLVED, that the following individuals are hereby elected as officers of the Company, to hold the offices set forth opposite their respective names below for the ensuing year or until their successors are duly elected and shall have qualified, unless sooner removed by the Manager:

Thomas Kalishman	Chairman and Chief Executive Officer
Jerome P. Shaw, Jr.	President
Boyd Hirtz	Vice President
Joe Feuerborn	Vice President
Roger Archibald	Chief Financial Officer, Secretary and Treasurer
Steve Stulce	Assistant Secretary and Assistant Treasurer

RESOLVED FURTHER, that any and all action heretofore taken, and any and all things heretofore done, by any director of the Company in connection with, or with respect to, the matters referred to in the foregoing Resolutions be and hereby are confirmed as authorized and valid acts taken on behalf of the Company.

RESOLVED FURTHER, that the foregoing resolutions shall replace and supersede any and all prior resolutions appointing officers of the Company.

Dated as of January 1, 2023.

Jerome P. Shaw, Jr., Sole Manager

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F. AUTHORIZED NEGOTIATOR / NEGOTIATIBLE ELEMENTS (ALTERNATES)

Include the name, phone number, and e-mail address of persons(s) in your organization authorized to negotiate the agreement with the City.

The proposal price shall include materials and equipment selected from the designated items and manufacturers listed in the bidding documents. This is done to establish uniformity in bidding and to establish standards of quality for the items named.

If the bidder wishes to quote alternate items for consideration by the City, it may do so under this Section. A complete description of the item and the proposed price differential must be provided. Unless approved at the time of award, substitutions where items are specifically named will be considered only as a negotiated change in Contract Sum.

If the Bidder takes exception to the time stipulated in Article III of the Contract, Time of Completion, page C-2, it is requested to stipulate its proposed time for performance of the work.

Consideration for any proposed alternative items or time may be negotiated at the discretion of the City.

G. ATTACHMENTS

General Declaration, Legal Status of Bidder, Conflict of Interest Form, Living Wage Compliance Form, Prevailing Wage Compliance Form and the Non-Discrimination Form should be completed and returned with the proposal. These elements should be included as attachments to the proposal submission.

PROPOSAL EVALUATION

1. The selection committee will evaluate each proposal by the above-described criteria and point system. The City reserves the right to reject any proposal that it determines to be unresponsive and deficient in any of the information requested for evaluation. A proposal with all the requested information does not guarantee the proposing firm to be a candidate for an interview if interviews are selected to be held by the City. The committee may contact references to verify material submitted by the bidder.

2. The committee then will schedule interviews with the selected firms if necessary. The selected firms will be given the opportunity to discuss in more detail their qualifications, past experience, proposed work plan (if applicable) and pricing.

3. The interview should include the project team members expected to work on the project, but no more than six members total. The interview shall consist of a presentation of up to thirty minutes (or the length provided by the committee) by the

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bidder, including the person who will be the project manager on this contract, followed by approximately thirty minutes of questions and answers. Audiovisual aids may be used during the oral interviews. The committee may record the oral interviews.

4. The firms interviewed will then be re-evaluated by the above criteria and adjustments to scoring will be made as appropriate. After evaluation of the proposals, further negotiation with the selected firm may be pursued leading to the award of a contract by City Council, if suitable proposals are received.

The City reserves the right to waive the interview process and evaluate the bidder based on their proposal and pricing schedules alone.

The City will determine whether the final scope of the project to be negotiated will be entirely as described in this RFP, a portion of the scope, or a revised scope.

Work to be done under this contract is generally described through the detailed specifications and must be completed fully in accordance with the contract documents.

Any proposal that does not conform fully to these instructions may be rejected.

PREPARATION OF PROPOSALS

Proposals should have no plastic bindings but will not be rejected as non-responsive for being bound. Staples or binder clips are acceptable. Proposals should be printed double sided on recycled paper.

Each person signing the proposal certifies that they are a person in the bidder's firm/organization responsible for the decisions regarding the fees being offered in the Proposal and has not and will not participate in any action contrary to the terms of this provision.

ADDENDA

If it becomes necessary to revise any part of the RFP, notice of the addendum will be posted to Michigan Inter-governmental Trade Network (MITN) www.mitn.info and/or the City of Ann Arbor web site www.A2gov.org for all parties to download.

Each bidder should acknowledge in its proposal all addenda it has received on the General Declarations form provided in the Attachments section herein. The failure of a bidder to receive or acknowledge receipt of any addenda shall not relieve the bidder of the responsibility for complying with the terms thereof. The City will not be bound by oral responses to inquiries or written responses other than official written addenda.

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SECTION IV - ATTACHMENTS

Attachment A – Sample Standard Contract

Attachment B – General Declarations

Attachment C - Legal Status of Bidder

Attachment D – Prevailing Wage Declaration of Compliance Form

Attachment E – Living Wage Declaration of Compliance Form

Attachment F – Living Wage Ordinance Poster

Attachment G – Vendor Conflict of Interest Disclosure Form

Attachment H – Non-Discrimination Ordinance Declaration of Compliance Form

Attachment I – Non-Discrimination Ordinance Poster

Sample Certified Payroll Report Template

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Administrative Use Only
Contract Date: _____

CONTRACT

THIS CONTRACT is between the CITY OF ANN ARBOR, a Michigan Municipal Corporation, 301 East Huron Street, Ann Arbor, Michigan 48104 ("City") and SAK Construction LLC, a Missouri limited liability company, 864 Hoff Road, O'Fallon, Missouri 63366 ("Contractor")

Based upon the mutual promises below, the Contractor and the City agree as follows:

ARTICLE I - Scope of Work

The Contractor agrees to furnish all of the materials, equipment and labor necessary; and to abide by all the duties and responsibilities applicable to it for the project titled **2023 Sewer Lining project; RFP No. 23-41** in accordance with the requirements and provisions of the following documents, including all written modifications incorporated into any of the documents, all of which are incorporated as part of this Contract:

Non-discrimination and Living Wage Declaration of Compliance Forms (if applicable)
Vendor Conflict of Interest Form
Prevailing Wage Declaration of Compliance Form (if applicable)
Bid Forms
Contract and Exhibits
Bonds
General Conditions
Standard Specifications
Detailed Specifications
Plans
Addenda

ARTICLE II - Definitions

Administering Service Area/Unit means **Public Services Area/Engineering Unit**

Project means **2023 Sewer Lining project; RFP No. 23-41**

Supervising Professional means the person acting under the authorization of the manager of the Administering Service Area/Unit. At the time this Contract is executed, the Supervising Professional is: **Igor Kotlyar** whose job title is **Project Manager**. If there is any question concerning who the Supervising Professional is, Contractor shall confirm with the manager of the Administering Service Area/Unit.

Contractor's Representative means Boyd Hirtz whose job title is Vice President.

ARTICLE III - Time of Completion

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(A) The work to be completed under this Contract shall begin immediately on the date specified in the Notice to Proceed issued by the City.

(B) The entire work for this Contract shall be completed in accordance with the scheduling requirements outlined in the "Detailed Specification for Project Schedule" found in the Contract Documents.

(C) Failure to complete all the work within the time specified above, including any extension granted in writing by the Supervising Professional, shall obligate the Contractor to pay the City, as liquidated damages and not as a penalty, the amount(s) specified in the "Detailed Specification for Project Schedule" found in the Contract Documents for each calendar day of delay in the completion of all the work. If any liquidated damages are unpaid by the Contractor, the City shall be entitled to deduct these unpaid liquidated damages from the monies due the Contractor.

The liquidated damages are for the non-quantifiable aspects of any of the previously identified events and do not cover actual damages that can be shown or quantified nor are they intended to preclude recovery of actual damages in addition to the recovery of liquidated damages.

ARTICLE IV - The Contract Sum

(A) The City shall pay to the Contractor for the performance of the Contract, the unit prices as given in the Bid Form for the estimated bid total of:

Two Million, Nine Hundred Eighty Nine Thousand, Six Hundred Fifty Nine Dollars ($2,989,659.00)

(B) The amount paid shall be equitably adjusted to cover changes in the work ordered by the Supervising Professional but not required by the Contract Documents. Increases or decreases shall be determined only by written agreement between the City and Contractor.

ARTICLE V - Assignment

This Contract may not be assigned or subcontracted any portion of any right or obligation under this contract without the written consent of the City. Notwithstanding any consent by the City to any assignment, Contractor shall at all times remain bound to all warranties, certifications, indemnifications, promises and performances, however described, as are required of it under this contract unless specifically released from the requirement, in writing, by the City.

ARTICLE VI - Choice of Law

This Contract shall be construed, governed, and enforced in accordance with the laws of the State of Michigan. By executing this Contract, the Contractor and the City agree to venue in a court of appropriate jurisdiction sitting within Washtenaw County for purposes of any action arising under

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this Contract. The parties stipulate that the venue referenced in this Contract is for convenience and waive any claim of non-convenience.

Whenever possible, each provision of the Contract will be interpreted in a manner as to be effective and valid under applicable law. The prohibition or invalidity, under applicable law, of any provision will not invalidate the remainder of the Contract.

ARTICLE VII - Relationship of the Parties

The parties of the Contract agree that it is not a Contract of employment but is a Contract to accomplish a specific result. Contractor is an independent Contractor performing services for the City. Nothing contained in this Contract shall be deemed to constitute any other relationship between the City and the Contractor.

Contractor certifies that it has no personal or financial interest in the project other than the compensation it is to receive under the Contract. Contractor certifies that it is not, and shall not become, overdue or in default to the City for any Contract, debt, or any other obligation to the City including real or personal property taxes. City shall have the right to set off any such debt against compensation awarded for services under this Contract.

ARTICLE VIII - Notice

All notices given under this Contract shall be in writing, and shall be by personal delivery or by certified mail with return receipt requested to the parties at their respective addresses as specified in the Contract Documents or other address the Contractor may specify in writing. Notice will be deemed given on the date when one of the following first occur: (1) the date of actual receipt; or (2) three days after mailing certified U.S. mail.

ARTICLE IX - Indemnification

To the fullest extent permitted by law, Contractor shall indemnify, defend and hold the City, its officers, employees and agents harmless from all suits, claims, judgments and expenses including attorney's fees resulting or alleged to result, in whole or in part, from any act or omission, which is in any way connected or associated with this Contract, by the Contractor or anyone acting on the Contractor's behalf under this Contract. Contractor shall not be responsible to indemnify the City for losses or damages caused by or resulting from the City's sole negligence. The provisions of this Article shall survive the expiration or earlier termination of this contract for any reason.

ARTICLE X - Entire Agreement

This Contract represents the entire understanding between the City and the Contractor and it supersedes all prior representations, negotiations, agreements, or understandings whether written or oral. Neither party has relied on any prior representations in entering into this Contract. No terms or conditions of either party's invoice, purchase order or other administrative document shall modify the terms and conditions of this Contract, regardless of the other party's failure to object to such form. This Contract shall be binding on and shall inure to the benefit of the parties to this Contract and their permitted successors and permitted assigns and nothing in this Contract, express or implied, is intended to or shall confer on any other person or entity any legal or equitable right, benefit, or remedy of any nature whatsoever under or by reason of this Contract. This Contract may be altered, amended or modified only by written amendment signed by the City and the Contractor.

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ARTICLE XI – Electronic Transactions

The City and Contractor agree that signatures on this Contract may be delivered electronically in lieu of an original signature and agree to treat electronic signatures as original signatures that bind them to this Contract. This Contract may be executed and delivered by facsimile and upon such delivery, the facsimile signature will be deemed to have the same effect as if the original signature had been delivered to the other party.

FOR CONTRACTOR

By: DocuSigned by: Joe Fennebom FED298564DF74D3... 1/10/2024

Its: VP/GM

FOR THE CITY OF ANN ARBOR

By: DocuSigned by: Christopher Taylor 9E354955DB164DA... 1/10/2024
Christopher Taylor, Mayor

By: DocuSigned by: 5CFB24F59BD641E...
Jacqueline Beaudry, City Clerk

Approved as to substance

By: DocuSigned by: Milton Dohoney Jr. 82ABAD5BD386491... 1/10/2024
Milton Dohoney Jr,
City Administrator

By: DocuSigned by: Brian Steglitz 56AF51CAD738483... 1/10/2024
Brian Steglitz, Public Services
Services Area Administrator

Approved as to form and content

DocuSigned by: Atleen Kaur 627306898F804DD... 1/10/2024
Atleen Kaur, City Attorney

DocuSign Envelope ID: E6258E13-1F01-485C-91C3-A674AA7D7B6B

BOND #107933695

PERFORMANCE BOND

(1) SAK Construction, LLC of 864 Hoff Road, O'Fallon, MO 63366 (referred to as "Principal"), and Travelers Casualty and Surety Company of America, a corporation duly authorized to do business in the State of Michigan (referred to as "Surety"), are bound to the City of Ann Arbor, Michigan (referred to as "City"), for $2,989,659.00* the payment of which Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, by this bond.

*Two Million Nine Hundred Eighty Nine Thousand Six Hundred Fifty Nine & No/100

(2) The Principal has entered a written Contract with the City entitled 2023 Sewer Lining Project, for RFP No. 23-41 and this bond is given for that Contract in compliance with Act No. 213 of the Michigan Public Acts of 1963, as amended, being MCL 129.201 et seq.

(3) Whenever the Principal is declared by the City to be in default under the Contract, the Surety may promptly remedy the default or shall promptly:

(a) complete the Contract in accordance with its terms and conditions; or

(b) obtain a bid or bids for submission to the City for completing the Contract in accordance with its terms and conditions, and upon determination by Surety of the lowest responsible bidder, arrange for a Contract between such bidder and the City, and make available, as work progresses, sufficient funds to pay the cost of completion less the balance of the Contract price; but not exceeding, including other costs and damages for which Surety may be liable hereunder, the amount set forth in paragraph 1.

(4) Surety shall have no obligation to the City if the Principal fully and promptly performs under the Contract.

(5) Surety agrees that no change, extension of time, alteration or addition to the terms of the Contract or to the work to be performed thereunder, or the specifications accompanying it shall in any way affect its obligations on this bond, and waives notice of any such change, extension of time, alteration or addition to the terms of the Contract or to the work, or to the specifications.

(6) Principal, Surety, and the City agree that signatures on this bond may be delivered electronically in lieu of an original signature and agree to treat electronic signatures as original signatures that bind them to this bond. This bond may be executed and delivered by facsimile and upon such delivery, the facsimile signature will be deemed to have the same effect as if the original signature had been delivered to the other party.

SIGNED AND SEALED this _____ day of _____, 202_.

Travelers Casualty and Surety Company of America
One Tower Square, Hartford, CT 06183
(Name of Surety Company)
By _____
(Signature)
Its Andrew P. Thome, Attorney-in-Fact
(Title of Office)

TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA
HARTFORD, CONN.

SAK Construction, LLC
(Name of Principal)
By _____
(Signature)
Its Vice President
(Title of Office)

Approved as to form:
DocuSigned by:
Aileen Kaur
827308898F804DD...
1/10/2024
Aileen Kaur, City Attorney

Name and address of agent:
Andrew P. Thome, Agent
Marsh McLennan Agency
825 Maryville Centre Drive, Suite 200
St. Louis, MO 63017

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BOND #107933695

LABOR AND MATERIAL BOND

(1) SAK Construction, LLC

of 864 Hoff Road, O'Fallon, MO 63366 (referred to as "Principal"), and Travelers Casualty and Surety Company of America, a corporation duly authorized to do business in the State of Michigan, (referred to as "Surety"), are bound to the City of Ann Arbor, Michigan (referred to as "City"), for the use and benefit of claimants as defined in Act 213 of Michigan Public Acts of 1963, as amended, being MCL 129.201 et seq., in the amount of

$ 2,989,659.00*, for the payment of which Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, by this bond.

*Two Million Nine Hundred Eighty Nine Thousand Six Hundred Fifty Nine & No/100

(2) The Principal has entered a written Contract with the Cityentitled 2023 Sewer Lining Project

, for RFP No. 23-41; and this bond is given for that Contract in compliance with Act No. 213 of the Michigan Public Acts of 1963 as amended;

(3) If the Principal fails to promptly and fully repay claimants for labor and material reasonably required under the Contract, the Surety shall pay those claimants.

(4) Surety's obligations shall not exceed the amount stated in paragraph 1, and Surety shall have no obligation if the Principal promptly and fully pays the claimants.

(5) Principal, Surety, and the City agree that signatures on this bond may be delivered electronically in lieu of an original signature and agree to treat electronic signatures as original signatures that bind them to this bond. This bond may be executed and delivered by facsimile and upon such delivery, the facsimile signature will be deemed to have the same effect as if the original signature had been delivered to the other party.

SIGNED AND SEALED this _____ day of _____, 202_

Travelers Casualty and Surety Company of America
One Tower Square, Hartford, CT 06183
(Name of Surety Company)
By _____
(Signature)

Its Andrew P. Thome, Attorney-in-Fact
(Title of Office)

TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA HARTFORD, CONN.

SAK Construction, LLC
(Name of Principal)
By _____
Boyd Hintz
(Signature)

Its Vice President
(Title of Office)

Approved as to form:
DocuSigned by:
Atleen Kaur
82730689BF804DD...
1/10/2024
Atleen Kaur, City Attorney

Name and address of agent:
Andrew P. Thome, Agent
Marsh McLennan Agency
825 Maryville Centre Drive, Suite 200
St. Louis, MO 63017

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ACKNOWLEDGEMENT FOR CONTRACTOR

ACKNOWLEDGEMENT FOR CONTRACTOR, IF LIMITED LIABILITY COMPANY

STATE OF **Missouri** }

COUNTY OF **St. Charles** }

ON THE _____ DAY OF _____, **20**___, BEFORE ME PERSONALLY APPEARED Boyd Hirtz TO ME KNOWN AND KNOWN TO ME TO BE THE Vice President OF **SAK Construction, LLC**, A LIMITED LIABILITY COMPANY, DESCRIBED IN AND WHO EXECUTED THE FOREGOING INSTRUMENT AND ACKNOWLEDGED TO ME THAT HE EXECUTED THE FOREGOING INSTRUMENT AND ACKNOWLEDGED TO ME THAT HE EXECUTED THE SAME AS AND FOR THE ACT AND DEED OF SAID LIMITED LIABILITY COMPANY.

Barbara Marler
Notary Public

BARBARA MARLER
Notary Public - Notary Seal
State of Missouri
Commissioned for St. Charles County
My Commission Expires: December 19, 2026
Commission Number: 14126252

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State of **Missouri**
County of **St. Louis**

On _____, before me, a Notary Public in and for said County and State, residing therein, duly commissioned and sworn, personally appeared Andrew P. Thome known to me to be Attorney-in-Fact of

Travelers Casualty and Surety Company of America

the corporation described in and that executed the within and foregoing instrument, and known to me to be the person who executed the said instrument in behalf of said corporation, and he duly acknowledged to me that such corporation executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, the day and year stated in this certificate above.

Amanda L. Williams

Amanda L. Williams, Notary Public

AMANDA L. WILLIAMS
Notary Public - Notary Seal
STATE OF MISSOURI
St. Louis County
My Commission Expires: Jul. 24, 2025
Commission # 13507257

My Commission Expires: _____

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TRAVELERS

Travelers Casualty and Surety Company of America
Travelers Casualty and Surety Company
St. Paul Fire and Marine Insurance Company

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint **ANDREW P THOME** of **CHESTERFIELD**, **Missouri**, their true and lawful Attorney(s)-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this **21st** day of **April, 2021**.

State of Connecticut

City of Hartford ss.

By: _____
Robert L. Raney, Senior Vice President

On this the **21st** day of **April, 2021**, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of each of the Companies, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of said Companies by himself as a duly authorized officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission expires the **30th** day of **June, 2026**

_____
Anna P. Nowik, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of each of the Companies, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, **Kevin E. Hughes,** the undersigned, Assistant Secretary of each of the Companies, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this day of

_____
Kevin E. Hughes, Assistant Secretary

To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.
Please refer to the above-named Attorney(s)-in-Fact and the details of the bond to which this Power of Attorney is attached.

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TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA

HARTFORD, CONNECTICUT 06183

FINANCIAL STATEMENT AS OF DECEMBER 31, 2022

CAPITAL STOCK $ 6,460,000

ASSETS		LIABILITIES & SURPLUS	
BONDS	$ 4,788,996,790	LOSSES	$ 1,385,257,132
STOCKS	102,639,111	LOSS ADJUSTMENT EXPENSES	133,864,803
CASH AND INVESTED CASH	20,110,068	COMMISSIONS	55,456,724
OTHER INVESTED ASSETS	5,661,540	OTHER EXPENSES	49,033,047
SECURITIES LENDING REINVESTED COLLATERAL ASSETS	25,605,872	TAXES, LICENSES AND FEES	16,807,425
INVESTMENT INCOME DUE AND ACCRUED	42,265,766	REINSURANCE PAYABLE ON PAID LOSSES AND LOSS ADJ EXPENSES	(1,738,793)
PREMIUM BALANCES	308,425,453	UNEARNED PREMIUMS	1,394,161,189
REINSURANCE RECOVERABLE	57,954,515	ADVANCE PREMIUM	3,860,400
NET DEFERRED TAX ASSET	68,131,600	POLICYHOLDER DIVIDENDS	16,122,229
CURRENT FEDERAL AND FOREIGN INCOME TAXES RECOVERABLE AND INTEREST	3,250,318	CEDED REINSURANCE NET PREMIUMS PAYABLE	73,928,911
GUARANTY FUNDS RECEIVABLE OR ON DEPOSIT	1,059,482	AMOUNTS WITHHELD / RETAINED BY COMPANY FOR OTHERS	23,586,276
RECEIVABLE FROM PARENTS, SUBSIDIARIES AND AFFILIATES	14,868,600	REMITTANCES AND ITEMS NOT ALLOCATED	5,082,055
OTHER ASSETS	963,374	PROVISION FOR REINSURANCE	6,464,384
		PAYABLE FOR SECURITIES LENDING	25,605,872
		RETROACTIVE REINSURANCE RESERVE ASSUMED	785,441
		OTHER ACCRUED EXPENSES AND LIABILITIES	186,614
		TOTAL LIABILITIES	$ 3,190,685,707
		CAPITAL STOCK	$ 6,460,000
		PAID IN SURPLUS	433,803,760
		OTHER SURPLUS	1,809,161,022
		TOTAL SURPLUS TO POLICYHOLDERS	$ 2,249,444,782
TOTAL ASSETS	$ 5,440,130,489	TOTAL LIABILITIES & SURPLUS	$ 5,440,130,489

STATE OF CONNECTICUT)

COUNTY OF HARTFORD) SS.

CITY OF HARTFORD)

MICHAEL J. DOODY, BEING DULY SWORN, SAYS THAT HE IS VICE PRESIDENT – FINANCE, OF TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA, AND THAT TO THE BEST OF HIS KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT STATEMENT OF THE FINANCIAL CONDITION OF SAID COMPANY AS OF THE 31ST DAY OF DECEMBER, 2022.

Michael J Doody

VICE PRESIDENT – FINANCE

SUBSCRIBED AND SWORN TO BEFORE ME THIS
17TH DAY OF MARCH, 2023

NOTARY PUBLIC

SUSAN M. WEISSLEDER
Notary Public
My Commission Expires November 30, 2027

SUSAN M. WEISSLEDER NOTARY PUBLIC CONNECTICUT

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GENERAL CONDITIONS

Section 1 - Execution, Correlation and Intent of Documents

The contract documents shall be signed in 2 copies by the City and the Contractor.

The contract documents are complementary and what is called for by any one shall be binding. The intention of the documents is to include all labor and materials, equipment and transportation necessary for the proper execution of the work. Materials or work described in words which so applied have a well-known technical or trade meaning have the meaning of those recognized standards.

In case of a conflict among the contract documents listed below in any requirement(s), the requirement(s) of the document listed first shall prevail over any conflicting requirement(s) of a document listed later.

(1) Addenda in reverse chronological order; (2) Detailed Specifications; (3) Standard Specifications; (4) Plans; (5) General Conditions; (6) Contract; (7) Bid Forms; (8) Bond Forms; (9) Bid.

Section 2 - Order of Completion

The Contractor shall submit with each invoice, and at other times reasonably requested by the Supervising Professional, schedules showing the order in which the Contractor proposes to carry on the work. They shall include the dates at which the Contractor will start the several parts of the work, the estimated dates of completion of the several parts, and important milestones within the several parts.

Section 3 - Familiarity with Work

The Bidder or its representative shall make personal investigations of the site of the work and of existing structures and shall determine to its own satisfaction the conditions to be encountered, the nature of the ground, the difficulties involved, and all other factors affecting the work proposed under this Contract. The Bidder to whom this Contract is awarded will not be entitled to any additional compensation unless conditions are clearly different from those which could reasonably have been anticipated by a person making diligent and thorough investigation of the site.

The Bidder shall immediately notify the City upon discovery, and in every case prior to submitting its Bid, of every error or omission in the bidding documents that would be identified by a reasonably competent, diligent Bidder. In no case will a Bidder be allowed the benefit of extra compensation or time to complete the work under this Contract for extra expenses or time spent as a result of the error or omission.

Section 4 - Wage Requirements

Under this Contract, the Contractor shall conform to Chapter 14 of Title I of the Code of the City of Ann Arbor as amended; which in part states "...that all craftsmen, mechanics and laborers employed directly on the site in connection with said improvements, including said employees of

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subcontractors, shall receive the prevailing wage for the corresponding classes of craftsmen, mechanics and laborers, as determined by statistics for the Ann Arbor area compiled by the United States Department of Labor. At the request of the City, any contractor or subcontractor shall provide satisfactory proof of compliance with the contract provisions required by the Section.

Pursuant to Resolution R-16-469 all public improvement contractors are subject to prevailing wage and will be required to provide to the City payroll records sufficient to demonstrate compliance with the prevailing wage requirements. A sample Prevailing Wage Form is provided in the Appendix herein for reference as to what will be expected from contractors. Use of the Prevailing Wage Form provided in the Appendix section or a City-approved equivalent will be required along with wage rate interviews.

Where the Contract and the Ann Arbor City Ordinance are silent as to definitions of terms required in determining contract compliance with regard to prevailing wages, the definitions provided in the Davis-Bacon Act as amended (40 U.S.C. 278-a to 276-a-7) for the terms shall be used.

If the Contractor is a “covered employer” as defined in Chapter 23 of the Ann Arbor City Code, the Contractor agrees to comply with the living wage provisions of Chapter 23 of the Ann Arbor City Code. The Contractor agrees to pay those employees providing Services to the City under this Contract a “living wage,” as defined in Section 1:815 of the Ann Arbor City Code, as adjusted in accordance with Section 1:815(3); to post a notice approved by the City of the applicability of Chapter 23 in every location in which regular or contract employees providing services under this Contract are working; to maintain records of compliance; if requested by the City, to provide documentation to verify compliance; to take no action that would reduce the compensation, wages, fringe benefits, or leave available to any employee or person contracted for employment in order to pay the living wage required by Section 1:815; and otherwise to comply with the requirements of Chapter 23.

Contractor agrees that all subcontracts entered into by the Contractor shall contain similar wage provision covering subcontractor’s employees who perform work on this contract.

Section 5 - Non-Discrimination

The Contractor agrees to comply, and to require its subcontractor(s) to comply, with the nondiscrimination provisions of MCL 37.2209. The Contractor further agrees to comply with the provisions of Section 9:158 of Chapter 112 of Title IX of the Ann Arbor City Code, and to assure that applicants are employed and that employees are treated during employment in a manner which provides equal employment opportunity.

Section 6 - Materials, Appliances, Employees

Unless otherwise stipulated, the Contractor shall provide and pay for all materials, labor, water, tools, equipment, light, power, transportation, and other facilities necessary or used for the execution and completion of the work. Unless otherwise specified, all materials incorporated in the permanent work shall be new, and both workmanship and materials shall be of the highest quality. The Contractor shall, if required, furnish satisfactory evidence as to the kind and quality of materials.

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The Contractor shall at all times enforce strict discipline and good order among its employees, and shall seek to avoid employing on the work any unfit person or anyone not skilled in the work assigned.

Adequate sanitary facilities shall be provided by the Contractor.

Section 7 - Qualifications for Employment

The Contractor shall employ competent laborers and mechanics for the work under this Contract. For work performed under this Contract, employment preference shall be given to qualified local residents.

Section 8 - Royalties and Patents

The Contractor shall pay all royalties and license fees. It shall defend all suits or claims for infringements of any patent rights and shall hold the City harmless from loss on account of infringement except that the City shall be responsible for all infringement loss when a particular process or the product of a particular manufacturer or manufacturers is specified, unless the City has notified the Contractor prior to the signing of the Contract that the particular process or product is patented or is believed to be patented.

Section 9 - Permits and Regulations

The Contractor must secure and pay for all permits, permit or plan review fees and licenses necessary for the prosecution of the work. These include but are not limited to City building permits, right-of-way permits, lane closure permits, right-of-way occupancy permits, and the like. The City shall secure and pay for easements shown on the plans unless otherwise specified.

The Contractor shall give all notices and comply with all laws, ordinances, rules and regulations bearing on the conduct of the work as drawn and specified. If the Contractor observes that the contract documents are at variance with those requirements, it shall promptly notify the Supervising Professional in writing, and any necessary changes shall be adjusted as provided in the Contract for changes in the work.

Section 10 - Protection of the Public and of Work and Property

The Contractor is responsible for the means, methods, sequences, techniques and procedures of construction and safety programs associated with the work contemplated by this contract. The Contractor, its agents or sub-contractors, shall comply with the "General Rules and Regulations for the Construction Industry" as published by the Construction Safety Commission of the State of Michigan and to all other local, State and National laws, ordinances, rules and regulations pertaining to safety of persons and property.

The Contractor shall take all necessary and reasonable precautions to protect the safety of the public. It shall continuously maintain adequate protection of all work from damage, and shall take all necessary and reasonable precautions to adequately protect all public and private property from injury or loss arising in connection with this Contract. It shall make good any damage, injury or loss to its work and to public and private property resulting from lack of reasonable protective precautions, except as may be due to errors in the contract documents, or caused by agents or

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employees of the City. The Contractor shall obtain and maintain sufficient insurance to cover damage to any City property at the site by any cause.

In an emergency affecting the safety of life, or the work, or of adjoining property, the Contractor is, without special instructions or authorization from the Supervising Professional, permitted to act at its discretion to prevent the threatened loss or injury. It shall also so act, without appeal, if authorized or instructed by the Supervising Professional.

Any compensation claimed by the Contractor for emergency work shall be determined by agreement or in accordance with the terms of Claims for Extra Cost - Section 15.

Section 11 - Inspection of Work

The City shall provide sufficient competent personnel for the inspection of the work.

The Supervising Professional shall at all times have access to the work whenever it is in preparation or progress, and the Contractor shall provide proper facilities for access and for inspection.

If the specifications, the Supervising Professional's instructions, laws, ordinances, or any public authority require any work to be specially tested or approved, the Contractor shall give the Supervising Professional timely notice of its readiness for inspection, and if the inspection is by an authority other than the Supervising Professional, of the date fixed for the inspection. Inspections by the Supervising Professional shall be made promptly, and where practicable at the source of supply. If any work should be covered up without approval or consent of the Supervising Professional, it must, if required by the Supervising Professional, be uncovered for examination and properly restored at the Contractor's expense.

Re-examination of any work may be ordered by the Supervising Professional, and, if so ordered, the work must be uncovered by the Contractor. If the work is found to be in accordance with the contract documents, the City shall pay the cost of re-examination and replacement. If the work is not in accordance with the contract documents, the Contractor shall pay the cost.

Section 12 - Superintendence

The Contractor shall keep on the work site, during its progress, a competent superintendent and any necessary assistants, all satisfactory to the Supervising Professional. The superintendent will be responsible to perform all on-site project management for the Contractor. The superintendent shall be experienced in the work required for this Contract. The superintendent shall represent the Contractor and all direction given to the superintendent shall be binding as if given to the Contractor. Important directions shall immediately be confirmed in writing to the Contractor. Other directions will be confirmed on written request. The Contractor shall give efficient superintendence to the work, using its best skill and attention.

Section 13 - Changes in the Work

The City may make changes to the quantities of work within the general scope of the Contract at any time by a written order and without notice to the sureties. If the changes add to or deduct from the extent of the work, the Contract Sum shall be adjusted accordingly. All the changes shall be

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executed under the conditions of the original Contract except that any claim for extension of time caused by the change shall be adjusted at the time of ordering the change.

In giving instructions, the Supervising Professional shall have authority to make minor changes in the work not involving extra cost and not inconsistent with the purposes of the work, but otherwise, except in an emergency endangering life or property, no extra work or change shall be made unless in pursuance of a written order by the Supervising Professional, and no claim for an addition to the Contract Sum shall be valid unless the additional work was ordered in writing.

The Contractor shall proceed with the work as changed and the value of the work shall be determined as provided in Claims for Extra Cost - Section 15.

Section 14 - Extension of Time

Extension of time stipulated in the Contract for completion of the work will be made if and as the Supervising Professional may deem proper under any of the following circumstances:

(1) When work under an extra work order is added to the work under this Contract;

(2) When the work is suspended as provided in Section 20;

(3) When the work of the Contractor is delayed on account of conditions which could not have been foreseen, or which were beyond the control of the Contractor, and which were not the result of its fault or negligence;

(4) Delays in the progress of the work caused by any act or neglect of the City or of its employees or by other Contractors employed by the City;

(5) Delay due to an act of Government;

(6) Delay by the Supervising Professional in the furnishing of plans and necessary information;

(7) Other cause which in the opinion of the Supervising Professional entitles the Contractor to an extension of time.

The Contractor shall notify the Supervising Professional within 7 days of an occurrence or conditions which, in the Contractor's opinion, entitle it to an extension of time. The notice shall be in writing and submitted in ample time to permit full investigation and evaluation of the Contractor's claim. The Supervising Professional shall acknowledge receipt of the Contractor's notice within 7 days of its receipt. Failure to timely provide the written notice shall constitute a waiver by the Contractor of any claim.

In situations where an extension of time in contract completion is appropriate under this or any other section of the contract, the Contractor understands and agrees that the only available adjustment for events that cause any delays in contract completion shall be extension of the required time for contract completion and that there shall be no adjustments in the money due the Contractor on account of the delay.

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Section 15 - Claims for Extra Cost

If the Contractor claims that any instructions by drawings or other media issued after the date of the Contract involved extra cost under this Contract, it shall give the Supervising Professional written notice within 7 days after the receipt of the instructions, and in any event before proceeding to execute the work, except in emergency endangering life or property. The procedure shall then be as provided for Changes in the Work-Section l3. No claim shall be valid unless so made.

If the Supervising Professional orders, in writing, the performance of any work not covered by the contract documents, and for which no item of work is provided in the Contract, and for which no unit price or lump sum basis can be agreed upon, then the extra work shall be done on a Cost-Plus-Percentage basis of payment as follows:

(1) The Contractor shall be reimbursed for all reasonable costs incurred in doing the work, and shall receive an additional payment of 15% of all the reasonable costs to cover both its indirect overhead costs and profit;

(2) The term "Cost" shall cover all payroll charges for employees and supervision required under the specific order, together with all worker's compensation, Social Security, pension and retirement allowances and social insurance, or other regular payroll charges on same; the cost of all material and supplies required of either temporary or permanent character; rental of all power-driven equipment at agreed upon rates, together with cost of fuel and supply charges for the equipment; and any costs incurred by the Contractor as a direct result of executing the order, if approved by the Supervising Professional;

(3) If the extra is performed under subcontract, the subcontractor shall be allowed to compute its charges as described above. The Contractor shall be permitted to add an additional charge of 5% percent to that of the subcontractor for the Contractor's supervision and contractual responsibility;

(4) The quantities and items of work done each day shall be submitted to the Supervising Professional in a satisfactory form on the succeeding day, and shall be approved by the Supervising Professional and the Contractor or adjusted at once;

(5) Payments of all charges for work under this Section in any one month shall be made along with normal progress payments. Retainage shall be in accordance with Progress Payments-Section 16.

No additional compensation will be provided for additional equipment, materials, personnel, overtime or special charges required to perform the work within the time requirements of the Contract.

When extra work is required and no suitable price for machinery and equipment can be determined in accordance with this Section, the hourly rate paid shall be 1/40 of the basic weekly rate listed in the Rental Rate Blue Book published by Dataquest Incorporated and applicable to the time period the equipment was first used for the extra work. The hourly rate will be deemed to include all costs of operation such as bucket or blade, fuel, maintenance, "regional factors", insurance, taxes, and the like, but not the costs of the operator.

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Section 16 - Progress Payments

The Contractor shall submit each month, or at longer intervals, if it so desires, an invoice covering work performed for which it believes payment, under the Contract terms, is due. The submission shall be to the City's Finance Department - Accounting Division. The Supervising Professional will, within 10 days following submission of the invoice, prepare a certificate for payment for the work in an amount to be determined by the Supervising Professional as fairly representing the acceptable work performed during the period covered by the Contractor's invoice. To insure the proper performance of this Contract, the City will retain a percentage of the estimate in accordance with Act 524, Public Acts of 1980. The City will then, following the receipt of the Supervising Professional's Certificate, make payment to the Contractor as soon as feasible, which is anticipated will be within 15 days.

An allowance may be made in progress payments if substantial quantities of permanent material have been delivered to the site but not incorporated in the completed work if the Contractor, in the opinion of the Supervising Professional, is diligently pursuing the work under this Contract. Such materials shall be properly stored and adequately protected. Allowance in the estimate shall be at the invoice price value of the items. Notwithstanding any payment of any allowance, all risk of loss due to vandalism or any damages to the stored materials remains with the Contractor.

In the case of Contracts which include only the Furnishing and Delivering of Equipment, the payments shall be; 60% of the Contract Sum upon the delivery of all equipment to be furnished, or in the case of delivery of a usable portion of the equipment in advance of the total equipment delivery, 60% of the estimated value of the portion of the equipment may be paid upon its delivery in advance of the time of the remainder of the equipment to be furnished; 30% of the Contract Sum upon completion of erection of all equipment furnished, but not later than 60 days after the date of delivery of all of the equipment to be furnished; and payment of the final 10% on final completion of erection, testing and acceptance of all the equipment to be furnished; but not later than l80 days after the date of delivery of all of the equipment to be furnished, unless testing has been completed and shows the equipment to be unacceptable.

With each invoice for periodic payment, the Contractor shall enclose a Contractor's Declaration - Section 43, and an updated project schedule per Order of Completion - Section 2.

Section 17 - Deductions for Uncorrected Work

If the Supervising Professional decides it is inexpedient to correct work that has been damaged or that was not done in accordance with the Contract, an equitable deduction from the Contract price shall be made.

Section 18 - Correction of Work Before Final Payment

The Contractor shall promptly remove from the premises all materials condemned by the Supervising Professional as failing to meet Contract requirements, whether incorporated in the work or not, and the Contractor shall promptly replace and re-execute the work in accordance with the Contract and without expense to the City and shall bear the expense of making good all work of other contractors destroyed or damaged by the removal or replacement.

If the Contractor does not remove the condemned work and materials within l0 days after written notice, the City may remove them and, if the removed material has value, may store the material

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at the expense of the Contractor. If the Contractor does not pay the expense of the removal within 10 days thereafter, the City may, upon 10 days written notice, sell the removed materials at auction or private sale and shall pay to the Contractor the net proceeds, after deducting all costs and expenses that should have been borne by the Contractor. If the removed material has no value, the Contractor must pay the City the expenses for disposal within 10 days of invoice for the disposal costs.

The inspection or lack of inspection of any material or work pertaining to this Contract shall not relieve the Contractor of its obligation to fulfill this Contract and defective work shall be made good. Unsuitable materials may be rejected by the Supervising Professional notwithstanding that the work and materials have been previously overlooked by the Supervising Professional and accepted or estimated for payment or paid for. If the work or any part shall be found defective at any time before the final acceptance of the whole work, the Contractor shall forthwith make good the defect in a manner satisfactory to the Supervising Professional. The judgment and the decision of the Supervising Professional as to whether the materials supplied and the work done under this Contract comply with the requirements of the Contract shall be conclusive and final.

Section 19 - Acceptance and Final Payment

Upon receipt of written notice that the work is ready for final inspection and acceptance, the Supervising Professional will promptly make the inspection. When the Supervising Professional finds the work acceptable under the Contract and the Contract fully performed, the Supervising Professional will promptly sign and issue a final certificate stating that the work required by this Contract has been completed and is accepted by the City under the terms and conditions of the Contract. The entire balance found to be due the Contractor, including the retained percentage, shall be paid to the Contractor by the City within 30 days after the date of the final certificate.

Before issuance of final certificates, the Contractor shall file with the City:

(1) The consent of the surety to payment of the final estimate;
(2) The Contractor's Affidavit in the form required by Section 44.

In case the Affidavit or consent is not furnished, the City may retain out of any amount due the Contractor, sums sufficient to cover all lienable claims.

The making and acceptance of the final payment shall constitute a waiver of all claims by the City except those arising from:

(1) unsettled liens;
(2) faulty work appearing within 12 months after final payment;
(3) hidden defects in meeting the requirements of the plans and specifications;
(4) manufacturer's guarantees.

It shall also constitute a waiver of all claims by the Contractor, except those previously made and still unsettled.

Section 20 - Suspension of Work

The City may at any time suspend the work, or any part by giving 5 days notice to the Contractor in writing. The work shall be resumed by the Contractor within 10 days after the date fixed in the

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written notice from the City to the Contractor to do so. The City shall reimburse the Contractor for expense incurred by the Contractor in connection with the work under this Contract as a result of the suspension.

If the work, or any part, shall be stopped by the notice in writing, and if the City does not give notice in writing to the Contractor to resume work at a date within 90 days of the date fixed in the written notice to suspend, then the Contractor may abandon that portion of the work suspended and will be entitled to the estimates and payments for all work done on the portions abandoned, if any, plus 10% of the value of the work abandoned, to compensate for loss of overhead, plant expense, and anticipated profit.

Section 21 - Delays and the City's Right to Terminate Contract

If the Contractor refuses or fails to prosecute the work, or any separate part of it, with the diligence required to insure completion, ready for operation, within the allowable number of consecutive calendar days specified plus extensions, or fails to complete the work within the required time, the City may, by written notice to the Contractor, terminate its right to proceed with the work or any part of the work as to which there has been delay. After providing the notice the City may take over the work and prosecute it to completion, by contract or otherwise, and the Contractor and its sureties shall be liable to the City for any excess cost to the City. If the Contractor's right to proceed is terminated, the City may take possession of and utilize in completing the work, any materials, appliances and plant as may be on the site of the work and useful for completing the work. The right of the Contractor to proceed shall not be terminated or the Contractor charged with liquidated damages where an extension of time is granted under Extension of Time - Section 14.

If the Contractor is adjudged a bankrupt, or if it makes a general assignment for the benefit of creditors, or if a receiver is appointed on account of its insolvency, or if it persistently or repeatedly refuses or fails except in cases for which extension of time is provided, to supply enough properly skilled workers or proper materials, or if it fails to make prompt payments to subcontractors or for material or labor, or persistently disregards laws, ordinances or the instructions of the Supervising Professional, or otherwise is guilty of a substantial violation of any provision of the Contract, then the City, upon the certificate of the Supervising Professional that sufficient cause exists to justify such action, may, without prejudice to any other right or remedy and after giving the Contractor 3 days written notice, terminate this Contract. The City may then take possession of the premises and of all materials, tools and appliances thereon and without prejudice to any other remedy it may have, make good the deficiencies or finish the work by whatever method it may deem expedient, and deduct the cost from the payment due the Contractor. The Contractor shall not be entitled to receive any further payment until the work is finished. If the expense of finishing the work, including compensation for additional managerial and administrative services exceeds the unpaid balance of the Contract Sum, the Contractor and its surety are liable to the City for any excess cost incurred. The expense incurred by the City, and the damage incurred through the Contractor's default, shall be certified by the Supervising Professional.

Section 22 - Contractor's Right to Terminate Contract

If the work should be stopped under an order of any court, or other public authority, for a period of 3 months, through no act or fault of the Contractor or of anyone employed by it, then the Contractor may, upon 7 days written notice to the City, terminate this Contract and recover from the City payment for all acceptable work executed plus reasonable profit.

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Section 23 - City's Right To Do Work

If the Contractor should neglect to prosecute the work properly or fail to perform any provision of this Contract, the City, 3 days after giving written notice to the Contractor and its surety may, without prejudice to any other remedy the City may have, make good the deficiencies and may deduct the cost from the payment due to the Contractor.

Section 24 - Removal of Equipment and Supplies

In case of termination of this Contract before completion, from any or no cause, the Contractor, if notified to do so by the City, shall promptly remove any part or all of its equipment and supplies from the property of the City, failing which the City shall have the right to remove the equipment and supplies at the expense of the Contractor.

The removed equipment and supplies may be stored by the City and, if all costs of removal and storage are not paid by the Contractor within 10 days of invoicing, the City upon 10 days written notice may sell the equipment and supplies at auction or private sale, and shall pay the Contractor the net proceeds after deducting all costs and expenses that should have been borne by the Contractor and after deducting all amounts claimed due by any lien holder of the equipment or supplies.

Section 25 - Responsibility for Work and Warranties

The Contractor assumes full responsibility for any and all materials and equipment used in the construction of the work and may not make claims against the City for damages to materials and equipment from any cause except negligence or willful act of the City. Until its final acceptance, the Contractor shall be responsible for damage to or destruction of the project (except for any part covered by Partial Completion and Acceptance - Section 26). The Contractor shall make good all work damaged or destroyed before acceptance. All risk of loss remains with the Contractor until final acceptance of the work (Section 19) or partial acceptance (Section 26). The Contractor is advised to investigate obtaining its own builders risk insurance.

The Contractor shall guarantee the quality of the work for a period of one year. The Contractor shall also unconditionally guarantee the quality of all equipment and materials that are furnished and installed under the contract for a period of one year. At the end of one year after the Contractor's receipt of final payment, the complete work, including equipment and materials furnished and installed under the contract, shall be inspected by the Contractor and the Supervising Professional. Any defects shall be corrected by the Contractor at its expense as soon as practicable but in all cases within 60 days. Any defects that are identified prior to the end of one year shall also be inspected by the Contractor and the Supervising Professional and shall be corrected by the Contractor at its expense as soon as practicable but in all cases within 60 days. The Contractor shall assign all manufacturer or material supplier warranties to the City prior to final payment. The assignment shall not relieve the Contractor of its obligations under this paragraph to correct defects.

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Section 26 - Partial Completion and Acceptance

If at any time prior to the issuance of the final certificate referred to in Acceptance and Final Payment - Section 19, any portion of the permanent construction has been satisfactorily completed, and if the Supervising Professional determines that portion of the permanent construction is not required for the operations of the Contractor but is needed by the City, the Supervising Professional shall issue to the Contractor a certificate of partial completion, and immediately the City may take over and use the portion of the permanent construction described in the certificate, and exclude the Contractor from that portion.

The issuance of a certificate of partial completion shall not constitute an extension of the Contractor's time to complete the portion of the permanent construction to which it relates if the Contractor has failed to complete it in accordance with the terms of this Contract. The issuance of the certificate shall not release the Contractor or its sureties from any obligations under this Contract including bonds.

If prior use increases the cost of, or delays the work, the Contractor shall be entitled to extra compensation, or extension of time, or both, as the Supervising Professional may determine.

Section 27 - Payments Withheld Prior to Final Acceptance of Work

The City may withhold or, on account of subsequently discovered evidence, nullify the whole or part of any certificate to the extent reasonably appropriate to protect the City from loss on account of:

(1) Defective work not remedied;

(2) Claims filed or reasonable evidence indicating probable filing of claims by other parties against the Contractor;

(3) Failure of the Contractor to make payments properly to subcontractors or for material or labor;

(4) Damage to another Contractor.

When the above grounds are removed or the Contractor provides a Surety Bond satisfactory to the City which will protect the City in the amount withheld, payment shall be made for amounts withheld under this section.

Section 28 - Contractor's Insurance

(1) The Contractor shall procure and maintain during the life of this Contract, including the guarantee period and during any warranty work, such insurance policies, including those set forth below, as will protect itself and the City from all claims for bodily injuries, death or property damage that may arise under this Contract; whether the act(s) or omission(s) giving rise to the claim were made by the Contractor, any subcontractor, or anyone employed by them directly or indirectly. Prior to commencement of any work under this contract, Contractor shall provide to the City documentation satisfactory to the City, through City-approved means (currently myCOI), demonstrating it has obtained the required policies and endorsements. The certificates of insurance endorsements and/or copies of

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policy language shall document that the Contractor satisfies the following minimum requirements. Contractor shall add registration@mycoitracking.com to its safe sender's list so that it will receive necessary communication from myCOI. When requested, Contractor shall provide the same documentation for its subcontractor(s) (if any).

Required insurance policies include:

(a) Worker's Compensation Insurance in accordance with all applicable state and federal statutes. Further, Employers Liability Coverage shall be obtained in the following minimum amounts:

Bodily Injury by Accident - $500,000 each accident
Bodily Injury by Disease - $500,000 each employee
Bodily Injury by Disease - $500,000 each policy limit

(b) Commercial General Liability Insurance equivalent to, as a minimum, Insurance Services Office form CG 00 01 04 13 or current equivalent. The City of Ann Arbor shall be named as an additional insured. There shall be no added exclusions or limiting endorsements specifically for the following coverages: Products and Completed Operations, Explosion, Collapse and Underground coverage or Pollution. Further there shall be no added exclusions or limiting endorsements that diminish the City's protections as an additional insured under the policy. The following minimum limits of liability are required:

$1,000,000	Each occurrence as respect Bodily Injury Liability or Property Damage Liability, or both combined.
$2,000,000	Per Project General Aggregate
$1,000,000	Personal and Advertising Injury
$2,000,000	Products and Completed Operations Aggregate, which, notwithstanding anything to the contrary herein, shall be maintained for three years from the date the Project is completed.

(c) Motor Vehicle Liability Insurance, including Michigan No-Fault Coverages, equivalent to, as a minimum, Insurance Services Office form CA 00 01 10 13 or current equivalent. Coverage shall include all owned vehicles, all non-owned vehicles and all hired vehicles. The City of Ann Arbor shall be named as an additional insured. There shall be no added exclusions or limiting endorsements that diminish the City's protections as an additional insured under the policy. Further, the limits of liability shall be $1,000,000 for each occurrence as respects Bodily Injury Liability or Property Damage Liability, or both combined.

(d) Umbrella/Excess Liability Insurance shall be provided to apply excess of the Commercial General Liability, Employers Liability and the Motor Vehicle coverage enumerated above, for each occurrence and for aggregate in the amount of $1,000,000.

(2) Insurance required under subsection (1)(b) and (1)(c) above shall be considered primary as respects any other valid or collectible insurance that the City may possess, including any self-insured retentions the City may have; and any other insurance the City does possess shall be considered excess insurance only and shall not be required to contribute

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with this insurance. Further, the Contractor agrees to waive any right of recovery by its insurer against the City for any insurance listed herein.

(3) Insurance companies and policy forms are subject to approval of the City Attorney, which approval shall not be unreasonably withheld. Documentation must provide and demonstrate an unconditional and un-qualified 30-day written notice of cancellation in favor of the City of Ann Arbor. Further, the documentation must explicitly state the following: (a) the policy number(s); name of insurance company(s); name and address of the agent(s) or authorized representative(s); name(s), email address(es), and address of insured; project name; policy expiration date; and specific coverage amounts; (b) any deductibles or self-insured retentions which may be approved by the City, in its sole discretion; (c) that the policy conforms to the requirements specified Contractor shall furnish the City with satisfactory certificates of insurance and endorsements prior to commencement of any work. Upon request, the Contractor shall provide within 30 days a copy of the policy(ies) and all required endorsements to the City. If any of the above coverages expire by their terms during the term of this Contract, the Contractor shall deliver proof of renewal and/or new policies and endorsements to the Administering Service Area/Unit at least ten days prior to the expiration date.

(4) Any Insurance provider of Contractor shall be authorized to do business in the State of Michigan and shall carry and maintain a minimum rating assigned by A.M. Best & Company's Key Rating Guide of "A-" Overall and a minimum Financial Size Category of "V". Insurance policies and certificates issued by non-authorized insurance companies are not acceptable unless approved in writing by the City.

(5) City reserves the right to require additional coverage and/or coverage amounts as may be included from time to time in the Detailed Specifications for the Project.

(6) The provisions of General Condition 28 shall survive the expiration or earlier termination of this contract for any reason.

Section 29 - Surety Bonds

Bonds will be required from the successful bidder as follows:

(1) A Performance Bond to the City of Ann Arbor for the amount of the bid(s) accepted;
(2) A Labor and Material Bond to the City of Ann Arbor for the amount of the bid(s) accepted.

Bonds shall be executed on forms supplied by the City in a manner and by a Surety Company authorized to transact business in Michigan and satisfactory to the City Attorney.

Section 30 - Damage Claims

The Contractor shall be held responsible for all damages to property of the City or others, caused by or resulting from the negligence of the Contractor, its employees, or agents during the progress of or connected with the prosecution of the work, whether within the limits of the work or elsewhere. The Contractor must restore all property injured including sidewalks, curbing, sodding, pipes, conduit, sewers or other public or private property to not less than its original condition with new work.

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Section 31 - Refusal to Obey Instructions

If the Contractor refuses to obey the instructions of the Supervising Professional, the Supervising Professional shall withdraw inspection from the work, and no payments will be made for work performed thereafter nor may work be performed thereafter until the Supervising Professional shall have again authorized the work to proceed.

Section 32 - Assignment

Neither party to the Contract shall assign the Contract without the written consent of the other. The Contractor may assign any monies due to it to a third party acceptable to the City.

Section 33 - Rights of Various Interests

Whenever work being done by the City's forces or by other contractors is contiguous to work covered by this Contract, the respective rights of the various interests involved shall be established by the Supervising Professional, to secure the completion of the various portions of the work in general harmony.

The Contractor is responsible to coordinate all aspects of the work, including coordination of, and with, utility companies and other contractors whose work impacts this project.

Section 34 - Subcontracts

The Contractor shall not award any work to any subcontractor without prior written approval of the City. The approval will not be given until the Contractor submits to the City a written statement concerning the proposed award to the subcontractor. The statement shall contain all information the City may require.

The Contractor shall be as fully responsible to the City for the acts and omissions of its subcontractors, and of persons either directly or indirectly employed by them, as it is for the acts and omissions of persons directly employed by it.

The Contractor shall cause appropriate provisions to be inserted in all subcontracts relative to the work to bind subcontractors to the Contractor by the terms of the General Conditions and all other contract documents applicable to the work of the subcontractors and to give the Contractor the same power to terminate any subcontract that the City may exercise over the Contractor under any provision of the contract documents.

Nothing contained in the contract documents shall create any contractual relation between any subcontractor and the City.

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Section 35 - Supervising Professional's Status

The Supervising Professional has the right to inspect any or all work. The Supervising Professional has authority to stop the work whenever stoppage may be appropriate to insure the proper execution of the Contract. The Supervising Professional has the authority to reject all work and materials which do not conform to the Contract and to decide questions which arise in the execution of the work.

The Supervising Professional shall make all measurements and determinations of quantities. Those measurements and determinations are final and conclusive between the parties.

Section 36 - Supervising Professional's Decisions

The Supervising Professional shall, within a reasonable time after their presentation to the Supervising Professional, make decisions in writing on all claims of the City or the Contractor and on all other matters relating to the execution and progress of the work or the interpretation of the contract documents.

Section 37 - Storing Materials and Supplies

Materials and supplies may be stored at the site of the work at locations agreeable to the City unless specific exception is listed elsewhere in these documents. Ample way for foot traffic and drainage must be provided, and gutters must, at all times, be kept free from obstruction. Traffic on streets shall be interfered with as little as possible. The Contractor may not enter or occupy with agents, employees, tools, or material any private property without first obtaining written permission from its owner. A copy of the permission shall be furnished to the Supervising Professional.

Section 38 - Lands for Work

The Contractor shall provide, at its own expense and without liability to the City, any additional land and access that may be required for temporary construction facilities or for storage of materials.

Section 39 - Cleaning Up

The Contractor shall, as directed by the Supervising Professional, remove at its own expense from the City's property and from all public and private property all temporary structures, rubbish and waste materials resulting from its operations unless otherwise specifically approved, in writing, by the Supervising Professional.

Section 40 - Salvage

The Supervising Professional may designate for salvage any materials from existing structures or underground services. Materials so designated remain City property and shall be transported or stored at a location as the Supervising Professional may direct.

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Section 41 - Night, Saturday or Sunday Work

No night or Sunday work (without prior written City approval) will be permitted except in the case of an emergency and then only to the extent absolutely necessary. The City may allow night work which, in the opinion of the Supervising Professional, can be satisfactorily performed at night. Night work is any work between 8:00 p.m. and 7:00 a.m. No Saturday work will be permitted unless the Contractor gives the Supervising Professional at least 48 hours but not more than 5 days notice of the Contractor's intention to work the upcoming Saturday.

Section 42 - Sales Taxes

Under State law the City is exempt from the assessment of State Sales Tax on its direct purchases. Contractors who acquire materials, equipment, supplies, etc. for incorporation in City projects are not likewise exempt. State Law shall prevail. The Bidder shall familiarize itself with the State Law and prepare its Bid accordingly. No extra payment will be allowed under this Contract for failure of the Contractor to make proper allowance in this bid for taxes it must pay.

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Section 43

CONTRACTOR'S DECLARATION

I hereby declare that I have not, during the period _____, 20___, to _____, 20 , performed any work, furnished any materials, sustained any loss, damage or delay, or otherwise done anything in addition to the regular items (or executed change orders) set forth in the Contract titled _____, for which I shall ask, demand, sue for, or claim compensation or extension of time from the City, except as I hereby make claim for additional compensation or extension of time as set forth on the attached itemized statement. I further declare that I have paid all payroll obligations related to this Contract that have become due during the above period and that all invoices related to this Contract received more than 30 days prior to this declaration have been paid in full except as listed below.

There is/is not (Contractor please circle one and strike one as appropriate) an itemized statement attached regarding a request for additional compensation or extension of time.

_____ _____
Contractor Date

By _____
(Signature)

Its _____
(Title of Office)

Past due invoices, if any, are listed below.

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Section 44

CONTRACTOR'S AFFIDAVIT

The undersigned Contractor,_____, represents that on _____, 20___, it was awarded a contract by the City of Ann Arbor, Michigan to_____ under the terms and conditions of a Contract titled _____. The Contractor represents that all work has now been accomplished and the Contract is complete.

The Contractor warrants and certifies that all of its indebtedness arising by reason of the Contract has been fully paid or satisfactorily secured; and that all claims from subcontractors and others for labor and material used in accomplishing the project, as well as all other claims arising from the performance of the Contract, have been fully paid or satisfactorily settled. The Contractor agrees that, if any claim should hereafter arise, it shall assume responsibility for it immediately upon request to do so by the City of Ann Arbor.

The Contractor, for valuable consideration received, does further waive, release and relinquish any and all claims or right of lien which the Contractor now has or may acquire upon the subject premises for labor and material used in the project owned by the City of Ann Arbor.

This affidavit is freely and voluntarily given with full knowledge of the facts.

_____ _____
Contractor Date

By _____
(Signature)

Its _____
(Title of Office)

Subscribed and sworn to before me, on this _____ day of _____, 20__
_____ , _____ County, Michigan
Notary Public
_____ County, MI
My commission expires on:

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STANDARD SPECIFICATIONS

All work under this contract shall be performed in accordance with the Public Services Department Standard Specifications in effect at the date of availability of the contract documents stipulated in the Bid. All work under this Contract which is not included in these Standard Specifications, or which is performed using modifications to these Standard Specifications, shall be performed in accordance with the Detailed Specifications included in these contract documents.

Standard Specifications are available online:

https://www.a2gov.org/departments/engineering/Pages/Engineering-and-Contractor-Resources.aspx

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DETAILED SPECIFICATIONS

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DETAILED SPECIFICATION
FOR
CONTRACTOR QUALIFICATIONS

a. General.- As detailed elsewhere in the Contract Documents and Drawings the work of this project is to be performed in a sensitive, valuable, natural area within the City of Ann Arbor (City). This Detailed Specification sets forth criteria that will be used by the City in determining if the Contractor has the necessary personnel, equipment, and experience to perform the work of this project.

b. Documentation to be provided.- The Contractor Qualifications detailed in this specification apply to the following items:

- Sewer Televising and Cleaning
- Cured-In-Place Pipe (CIPP) Lining
- Onsite Superintendent/Foreman

Contractor to complete the attached Reference Form and submit it as part of the bid submittal. **Not filling out the form or providing past experience may result in disqualification of the bid**. If subcontractors are to be used for any of the above items, they are to fill out a separate form.

The projects and total footage claimed to have been performed by the Contractor shall be supported by owner references. The Contractor shall submit information to document their experience.

1. **Sewer Televising and Cleaning.-** The Contractor performing the sewer televising and cleaning shall be fully qualified, experienced, and equipped to complete this work as shown on the Drawings and as indicated in the specifications. The Contractor shall have cleaned and televised a minimum of 100,000 lineal feet of sanitary sewers equal to or greater than 36 inches in diameter with lengths of the individual segments over 1,000 feet each in the past 7 years. The Contractor shall also have cleaned and televised at least 3 sanitary siphon sewers equal to or greater than 24 inches in diameter in the past 7 years. The Contractor shall have also worked a minimum of three projects in similar environmentally sensitive areas in the past 7 years. The Contractor shall provide detailed description of these environmentally sensitive projects and methods used to mitigate the work upon request of the Engineer.

2. **Sewer CIPP Lining.-** The Contractor performing the CIPP lining work shall be fully qualified, experienced, and equipped to complete this work expeditiously and in a satisfactory manner and shall be certified and/or licensed as an installer by the CIPP manufacturer. The Contractor shall have installed a minimum of 10,000 lineal feet of CIPP in sanitary sewers equal to or greater than 36 inches in diameter in the past 7 years and over 1,000,000 feet of lining in general over the past 7 years. Installations must have been in northern states and/or Canada. Contractor must also provide safety record for the past 7 years.

3. **Onsite Superintendent/Foreman.-** The full-time, onsite superintendent/ foreman shall be responsible for supervising all the work onsite, including but not limited to, the diversion of sanitary flow, bypass pumping, sewer televising and cleaning, and sewer CIPP lining, shall have supervised a minimum of 3 projects of this complexity in the past 7 years and shall have installed a minimum of 10,000 lineal feet of CIPP in sanitary sewers greater than 24 inches in diameter in the past 7 years.

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DETAILED SPECIFICATION
FOR
CONTRACTOR QUALIFICATIONS

1. Sewer Televising and Cleaning References

(Must be completed and submitted with Bid for consideration)

List sewer cleaning and televising projects of sewers equal to or greater than 36 inches in size that total (together) over 100,000 lineal feet with the lengths of the individual segments over 1,000 feet in the past 7 years and provide references. Also, list a minimum of 3 projects that include the cleaning and televising of the sanitary siphon sewers equal to or greater than 24 inches in size in the past 7 years and provide references. The Contractor shall have also worked a minimum of three projects in similar environmentally sensitive areas in the past 7 years.

Firm's Name: _____

Role on Project: _____

1.1. Client's Name: _____

Address: _____

Contact Name: _____ Contact Phone: _____

Type of Work: _____

_____

_____

_____

Year Work Performed: _____ Work Amount ($): _____

1.2. Client's Name: _____

Address: _____

Contact Name: _____ Contact Phone: _____

Type of Work: _____

_____

_____

_____

Year Work Performed: _____ Work Amount ($): _____

1.3. Client's Name: _____

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Address: _____

Contact Name: _____ Contact Phone: _____

Type of Work: _____

_____

_____

_____

Year Work Performed: _____ Work Amount ($): _____

1.4. Client's Name: _____

Address: _____

Contact Name: _____ Contact Phone: _____

Type of Work: _____

_____

_____

_____

Year Work Performed: _____ Work Amount ($): _____

1.5. Client's Name: _____

Address: _____

Contact Name: _____ Contact Phone: _____

Type of Work: _____

_____

_____

_____

Year Work Performed: _____ Work Amount ($): _____

1.6. Client's Name: _____

Address: _____

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Contact Name: _____ Contact Phone: _____

Type of Work: _____

_____

_____

_____

Year Work Performed: _____ Work Amount ($): _____

1.7. Client's Name: _____

Address: _____

Contact Name: _____ Contact Phone: _____

Type of Work: _____

_____

_____

_____

Year Work Performed: _____ Work Amount ($): _____

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DETAILED SPECIFICATION
FOR
CONTRACTOR QUALIFICATIONS

2. Sewer CIPP Lining References

(Must be completed and submitted with Bid for consideration)

List sewer CIPP lining projects of sewers equal to or greater than 36 inches in diameter that total (together) over 10,000 lineal feet in northern states and/or Canada in the past 7 years and over 1,000,000 feet of lining in general over the past 7 years, and provide references. Also, provide safety record for the past 7 years as an attachment.

Firm's Name: _____

Role on Project: _____

2.1. Client's Name: _____

Address: _____

Contact Name: _____ Contact Phone: _____

Type of Work: _____

_____

_____

_____

Year Work Performed: _____ Work Amount ($): _____

2.2. Client's Name: _____

Address: _____

Contact Name: _____ Contact Phone: _____

Type of Work: _____

_____

_____

_____

Year Work Performed: _____ Work Amount ($): _____

2.3. Client's Name: _____

Address: _____

Contact Name: _____ Contact Phone: _____

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Type of Work: _____

_____

_____

_____

Year Work Performed: _____ Work Amount ($): _____

2.4. Client's Name: _____

Address: _____

Contact Name: _____ Contact Phone: _____

Type of Work: _____

_____

_____

_____

Year Work Performed: _____ Work Amount ($): _____

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3. Onsite Superintendent/Foreman
(Must be completed and submitted with Bid for consideration)

List name of onsite superintendent/foreman and list a minimum of 3 projects of similar complexity totaling 10,000 lineal feet of CIPP lining in sanitary sewers greater than 24 inches in diameter that they have supervised in the past 7 years and provide references.

Superintendent/Foreman Name: _____

3.1. Client's Name: _____

Address: _____

Contact Name: _____ Contact Phone: _____

Type of Work: _____

_____

_____

_____

Year Work Performed: _____ Work Amount ($): _____

3.2. Client's Name: _____

Address: _____

Contact Name: _____ Contact Phone: _____

Type of Work: _____

_____

_____

_____

Year Work Performed: _____ Work Amount ($): _____

3.3. Client's Name: _____

Address: _____

Contact Name: _____ Contact Phone: _____

Type of Work: _____

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_____

_____

_____

Year Work Performed: _____ Work Amount ($): _____

3.4. Client's Name: _____

Address: _____

Contact Name: _____ Contact Phone: _____

Type of Work: _____

_____

_____

_____

Year Work Performed: _____ Work Amount ($): _____

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DETAILED SPECIFICATION
FOR
PROJECT SCHEDULE

DESCRIPTION

Examination of Plans, Specifications, and Work Site: Bidders shall carefully examine the Bid Form, plans, specifications and the work site until the Bidder is satisfied as to all local conditions affecting the contract and the detailed requirements of construction. The submission of the bid shall be considered prima facie evidence that the Bidder has made such examination and is satisfied as to the conditions to be encountered in performing the work and all requirements of the contract.

The entire work under this Contract shall be completed in accordance with, and subject to, the scheduling requirements as outlined below, and all other requirements of the Contract Documents.

1. The Contractor shall begin the work of this project on or before **November 1, 2023**, and only upon receipt of the fully executed Contract and Notice to Proceed. Appropriate time extensions shall be granted if the Notice to Proceed is delayed beyond this date.

2. The entirety of work under this Contract, including but not limited to sanitary sewer inspection, cleaning, televising, and rehabilitation (cured-in-place pipe [CIPP] lining); manhole rehabilitation; the removal of any and all traffic control devices; and the installation/maintenance of the needed temporary soil erosion and sedimentation control devices, shall be completed by the Final Completion date of **June 30, 2024**.

The Contractor is expected to be furnished with two (2) copies of the Contract, for his/her execution, on or before **October 1, 2023**. The Contractor shall properly execute both copies of the Contract and return them, with the required Bonds and Insurance Certificate, to the City within ten (10) days. The Contractor shall not begin the work before the applicable date(s) as describes herein without approval from the Project Engineer, and in no case before the receipt of the fully executed Contract. City Council approval is expected in October **2023**.

Time is of the essence in the performance of the work of this contract. The Contractor is expected to mobilize sufficient personnel and equipment and work throughout all authorized hours to complete the project within the specified time/date of this Contract. Should the Contractor demonstrate that work must occur on Sundays in order to maintain the project schedule, they may do so between the hours of 9:00 a.m. and 5:00 p.m. with prior approval from the City. The Contractor will submit authorization requests for any Sunday work a minimum of three working days in advance of the day of the proposed work. There will be no additional compensation due to the Contractor for work performed on Sundays.

Prior to the start of any construction, the Contractor shall submit a detailed progress schedule of work for the Engineer's review and approval. Work shall not start until a schedule is approved in writing by the Engineer. The Contractor shall update the approved work schedule upon request by the Engineer and present it to the Engineer within seven days of said request.

The City's decision to delete locations, add locations, change the limits of construction limits at any locations, or, the City's contribution to a delay of the construction at any one location shall not entitle the Contractor to receive additional compensation for work on any other location(s), nor shall it relieve the Contractor of any responsibilities for completion of work on any other location(s).

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DETAILED SPECIFICATION
FOR
PROJECT SCHEDULE

The Engineer may delay or stop the work due to threatening weather conditions. The Contractor shall not be compensated for unused materials or downtime due to rain, or the threat of rain. The Contractor is solely responsible for repairing all damages to the work and to the site, including road infrastructures, road subgrades, and any adjacent properties, which are caused as a result of working in the rain.

The Contractor shall not work in the dark except as approved by the Engineer and only when lighting for night work is provided as detailed elsewhere in this contract. The Engineer may stop the work or may require the Contractor to defer certain work to another day, if, in the Engineer's opinion, the work cannot be completed within the remaining daylight hours, or if inadequate daylight is present to either properly perform or inspect the work. The Contractor will not be compensated for unused materials or downtime, when delays or work stoppages are directed by the Engineer for darkness and/or inadequate remaining daylight reasons. The Contractor is solely responsible for repairing all damages to the work and to the site, including road infrastructures, road subgrades, and any adjacent properties, which are caused as a result of working in the dark.

No work shall be performed, or lane closures permitted during the holiday periods, as defined by the Engineer.

Failure to complete all work as specified herein within the times specified herein, including time extensions granted thereto as determined by the Engineer, shall entitle the City to deduct from the payments due the Contractor, **$1,500.00** in Liquidated Damages, and not as a penalty, for delays in the completion of the work for each and every calendar day beyond any “Complete Work” date for each location, and beyond the overall project completion date as required by this Detailed Specification.

Liquidated Damages will be assessed until the required work is completed in the current construction season. If, with the Engineer’s approval, work is extended beyond seasonal limitations, the assessment of Liquidated Damages will be discontinued until the work is resumed in the following construction season.

If the work required by this construction contract is not completed by the specified date(s) including any extensions of time granted thereto, at the sole discretion of the City of Ann Arbor, this Contract may be terminated with no additional compensation due to the Contractor, and the Contractor may be forbidden to bid on future City of Ann Arbor projects for a period of at least three (3) years. If the Engineer elects to terminate the Contract, contract items paid for on a Lump Sum basis shall be paid up to a maximum percentage equal to the percentage of the contract work that has been completed.

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DETAILED SPECIFICATION
FOR
COORDINATION AND COOPERATION WITH OTHERS
AND
WORK BY OTHERS

1 of 1

The Contractor is reminded as to the requirements of article 104.07 of the 2020 edition of the MDOT Standard Specifications, "Cooperation by the Contractor."

The Contractor shall directly coordinate his/her work with individual City Departments/Divisions/Units.

No additional compensation will be paid to the Contractor, and no adjustments to contract unit prices will be made, due to delays and/or the failure of others in the performance of their work, nor for delays due to the encountering of existing utilities that are, or are not, shown on the Plans.

The following Utility Owners, and others not listed specifically, may have overhead and/or underground facilities located within the Right-of-Way/Public Easements:

The City of Ann Arbor
University of Michigan (UM)
Michigan Department of Transportation (MDOT)
AT&T
Comcast
DTE Energy - Detroit Edison Company (Edison)
DTE Energy - Michigan Consolidated Gas Company (Michcon)
Fiber Link Inc.
Light Core (Century Tel)
MCI Communications
Windstream Communications

On all projects:

"3 Working Days before you Dig - Call MISS DIG - Toll Free" Phone No. 1-800-482-7171.

The Owners of public or private utilities which will not interfere with the completed project and which do not present a hazard to the public or an extraordinary hazard to the Contractor's operations will not be required to move their facilities on or from the street right-of-way.

During the life of this contract, other public authorities and utility companies may be performing work within or adjacent to the project limits, including, but not limited to; construction of adjacent projects, underground utility work, permanent signing and traffic signals work, traffic control improvements, street maintenance and snow removal, etc. The Contractor shall cooperate and coordinate construction activities with these agencies in accordance with Article 104.08 of the 2020 edition of the MDOT Standard Specifications for Construction.

Stoppages created solely by the operations of the utility companies which delay utility revisions on any portion of this project may be considered as a basis of claim for an extension of time for project completion.

Costs for this work will not be paid for separately, but shall be included in the bid price of the Contract Item "General Conditions."

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DETAILED SPECIFICATION
FOR
MAINTENANCE OF TRAFFIC

DESCRIPTION

Traffic shall be maintained in accordance with the City of Ann Arbor Public Services Department Standard Specifications and as specified in Sections 104.11, 812, and 922 of the Michigan Department of Transportation (MDOT) 2020 Standard Specifications for Construction, the 2011 Michigan Manual of Uniform Traffic Control Devices (MMUTCD), and as described herein.

The Contractor shall furnish, erect, maintain and, upon completion of the work, remove all traffic control devices and barricade lights as required on the project for the safety and protection of local traffic. This includes, but is not limited to, temporary advance, regulatory, and warning signs; barricades and channelizing devices at intersections and on streets where traffic is to be maintained; barricades at the ends of the project and at right-of-way lines of intersecting streets, and traffic control devices for moving construction operations.

MATERIALS

The materials and equipment shall meet the requirements specified in the corresponding sections of the MDOT 2012 Standard Specifications for Construction and the 2011 MMUTCD.

Maintenance of Local Traffic

Unless otherwise indicated on the plans, all side roads shall not be closed to through traffic except during construction operations of short duration and only upon written approval of the Engineer.

Local access shall be maintained at all times for emergency vehicles, refuse pick-up, mail delivery, school buses, and ingress/egress to public and private properties.

Contractor must accommodate the safe access to the residential buildings and businesses located within construction area.

Driveways shall not be blocked for extended periods of time unless arrangements can be made with the affected property owner(s). When it becomes necessary to temporarily block driveways, the Contractor shall notify the affected property owners in advance to coordinate the work and allow sufficient time for vehicles to vacate from properties. It may be necessary to allow for vehicles to temporarily park in the roadway at locations that do not interfere with the Contractor's work. During these periods the owners of the respective vehicles must be available to, with proper notice, move their vehicles if it becomes necessary to accommodate the work.

At times, when it becomes necessary to temporarily obstruct local traffic during the performance of the work, the Contractor shall provide traffic regulator control in conformance with Chapter 6E of the MMUTCD, Sections 6E.01 thru 6E.08. A minimum of two traffic regulators are required. The cost of traffic regulator control shall be included in the contract pay item "Minor Traffic Control, Modified, Maximum $100,000".

A lane-closure permit shall be obtained by the Contractor from the Engineering Department, at least 48 hours in advance of any proposed lane or street closing.

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DETAILED SPECIFICATION
FOR
MAINTENANCE OF TRAFFIC

No lane closures shall be permitted during the Independence Day and Labor Day holiday periods, as defined by the Engineer.

The hours of work on all Local streets are 7:00 a.m. to 8:00 p.m., Monday through Saturday, or as specified on the lane-closure permit. No equipment will be allowed in the street before or after these hours. Local streets may only be closed to through traffic (local access only) with written authorization of the Engineer. Work must be completed each day such that all streets are re-opened to through traffic by 8:00 p.m. unless otherwise specified, directed, or authorized in writing by the Engineer. All major changes in traffic control shall be made either between 9:30 a.m. and 3:30 p.m. or between 7:00 p.m. and 6:30 a.m. in order to minimize interference with rush-hour traffic. All traffic controls must be in-place and ready for traffic each day by 6:30 a.m. and 3:30 p.m.

The Contractor shall temporarily cover conflicting traffic and/or parking signs when directed by the Engineer.

The Contractor shall use quantities of dust palliative, maintenance aggregate, and cold patching/HMA mixtures for use as temporary base, surfacing, and dust control at utility crossings, side roads and driveways (wherever required to maintain traffic), and where directed by the Engineer to maintain local access. The cost for the use of dust palliative, maintenance aggregate, cold patch and/or hot mix asphalt 36A mixture, as required and directed by the Engineer for maintenance of traffic and local access, shall be included in contract pay item "General Conditions," and it will not be paid for separately.

The work of maintaining and relocating existing warning, regulatory and/or guide signs; and of removing, salvaging and reinstalling existing signs and supports is included in the bid price for the contract pay item “Minor Traffic Control, Modified, Maximum $_100,000_”.

Mailboxes and newspaper boxes that are in the way of the construction shall be removed and reset immediately in a temporary location approved by the Engineer. Mail and paper delivery shall not be interrupted during the construction. Upon completion of the construction, all mailboxes and newspaper boxes, including their supports, shall be repositioned in their permanent locations as approved by the Engineer. This work shall be included the contract unit price for the contract pay item “General Conditions,” and it will not be paid for separately.

The Contractor shall perform the work of this Contract while maintaining traffic in accordance with the Contract Documents as specified herein. No traffic shall be allowed on newly placed asphalt surfaces until rolling has been satisfactorily completed and the surface has cooled sufficiently to prevent damage from traffic. This is to be accomplished by flag persons and by relocating traffic control devices to prevent traffic from entering the work area until such time that it can be safely maintained without damaging the new construction. The Contractor shall provide traffic regulators in sufficient number to maintain traffic as described herein, and to keep traffic off sections being surfaced, and provide for safe travel at all times as directed by the Engineer.

The Contractor shall furnish, erect, maintain, and upon completion of the work, remove any and all traffic control devices utilized on the project.

Each pressure distributor, paver and roller shall be equipped with at least one approved flasher light which shall be mounted on the equipment so as to give a warning signal ahead and behind.

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DETAILED SPECIFICATION
FOR
CONSTRUCTION SEQUENCING

1 of 1

The Contractor must submit a detailed progress schedule at the Pre-construction meeting which is to be approved by the Engineer. Unless an alternative sequence is requested by the Contractor and approved in writing by the Engineer, the work shall be performed in the order as shown on the schedule. This outline does not detail the full range of materials and processes needed to complete the work under this Contract. At each location the Contractor shall:

1. Install the required temporary traffic control devices in accordance with the construction plans, as detailed in the specifications, and as directed by the Engineer.
2. Install the soil erosion control measures in accordance with the plans and as directed by the Engineer.
3. Obtain approval for, set up, and activate by-pass pumping.
4. Clean & videotape sewer to be lined.
5. Construct the proposed sewer lining. The new sewer shall be tested in accordance with the plans and specifications.
6. After all the new sewer has passed the required testing, the contractor shall open all service leads. Service leads shall not be out of service for more than 12 hours.
7. Deactivate and breakdown by-pass pumping equipment.
8. Perform manhole rehabilitation.
9. Perform final cleanup and restoration in accordance with the Contract documents.
10. Remove temporary soil erosion and sedimentation control measures.
11. Remove all temporary traffic control devices.

Reference the plans for additional construction sequencing requirements.

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DETAILED SPECIFICATION
FOR
HOURS OF WORK

a. General Restrictions.- Hours of work shall be as stated in the Ann Arbor City Code Title IX, Chapter 119, Page 9.363, Monday through Saturday, between the hours of 7:00 a.m. and 8:00 p.m.

b. Exceptions.- During installation of the cured-in-place pipe (CIPP) lining, the Contractor may choose, in some cases, to perform nighttime work to facilitate construction during the inversion and curing processes. Additional requirements regarding this work are contained in Detailed Specification "CIPP Sewer Lining" and elsewhere in the Contract Documents. The Contractor shall include this work in their progress schedule, notify, and submit a request to the Engineer for permission to perform the nighttime CIPP work a minimum of 5 working days prior to beginning the work.

Maintenance of the sewer flow control may also require working outside the allowable hours of work ("off-hour" work). The Contractor shall provide anticipated off-hour work as part of their Sewer Flow Control Plan submittal(s) as contained in the Detailed Specification for "Sewer Flow Control."

Additional work restrictions are contained in the Detailed Specifications for "Project Schedule," "Maintenance of Traffic," "Working Space," "Construction Sequencing," and elsewhere in the Contract Documents. These work restrictions shall take precedence over the General Restrictions and Exceptions listed above.

The Contractor shall only perform work at night or on Sundays as required by the Contract Documents, unless there is a special need and the work is approved by the Engineer. All requests to work during off-hours shall be included in the Contractor's progress schedule and submitted to the Engineer for approval a minimum of 5 working days prior to beginning the work.

c. Noise Control. - All noise generated by construction activities shall not exceed 71 decibels (dBA) beyond the property line of the property on which the work is being conducted between 7:00 a.m. and 8:00 p.m., Monday through Saturday. The Contractor shall provide screening, noise absorption, and level II sound attenuation as required on equipment to meet the noise limitations set herein. Any "off-hour" work will require a temporary exemption from the City of Ann Arbor City Administrator. A temporary exemption may be granted in accordance with each respective entities' code of ordinance.

d. Method of Payment.- The costs of night work, whether required by the Contract Documents or requested by the Contractor, shall not be paid for separately, but shall be considered included in the cost of the affected contract pay items.

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DETAILED SPECIFICATION
FOR
WORKING IN THE RAIN

Portions of the work to be performed under this contract are weather sensitive. Contractor shall be responsible for coordinating and scheduling their work in anticipation of the weather.

Sewer flow control must cease during wet weather conditions. Wet weather conditions are as defined in Detailed Specification "Sewer Flow Control."

In the event of a wet weather event, Contractor shall remove plugs installed for sanitary flow diversion. Plugs shall be reinstalled upon cessation of the wet weather event and as approved by the Engineer.

The Contractor shall not be compensated for the time and/or effort spent removing the temporary flow diversion plugs and the lateral bypass pumping system or for unused materials or downtime caused as a result of a wet weather event. The Contractor is solely responsible for repairing all damage to the work and to the site, including road infrastructure, road subgrades, underground utilities, any adjacent properties, and the like, which are damaged as a result of working in the rain or working in areas that are wet from recent precipitation.

The only exception to the above is as indicated in Detailed Specification "Extension of Time, Additional Compensation."

The costs of complying with this requirement shall not be paid for separately but shall be considered included in the cost of the affected contract pay items.

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DETAILED SPECIFICATION
FOR
EXTENSION OF TIME, ADDITIONAL COMPENSATION

The Contractor shall notify the Engineer of their intent to submit a claim for additional compensation or an extension of time in accordance with the requirements of Section 104.10 of the 2020 edition of the Michigan Department of Transportation (MDOT) Standard Specifications for Construction. Failure to do so may be a basis for not approving the request for additional compensation or extension of time. The notification will allow the Engineer an opportunity to influence, keep records, and monitor the work.

Extensions of time will not be authorized due to delays caused by, or stemming from, the weather for the period between November 14th and April 16th unless any of the following conditions are present:

1. Air temperature (as measured from a thermometer provided, maintained, and installed by the Contractor in a location on the worksite, as mutually agreed upon between the Contractor and the Engineer) is below 15ºF for a period of time longer than 48 consecutive hours.

2. Accumulations of snow in excess of 12 inches occur in any 24 hour period.

3. Freezing rain in excess of 1/4-inch occur in any 24 hour period.

4. Wet weather event, as defined in Detailed Specification “Sewer Flow Control” requiring the temporary removal of flow diversion plugs and lateral bypass pumping system.

Should the above mentioned weather conditions occur, and the Contractor requests an extension of contract time, the time extension shall only be for the realized delay to the controlling work operation.

The above weather delays shall not be considered as a basis for additional compensation on this project. The only exception shall be that if the temporary removal of the flow diversion plugs and lateral bypass pumping system occurred after the sewers had been cleaned, televised, prepped for lining, and approved by the Engineer for lining before the sewers were lined. In such an event, the Contractor may request compensation for the re-cleaning and re-televising of the affected pipes only. The re-cleaning must first be approved by the Engineer prior to the work beginning. No compensation shall be provided for the removal and re-installation of the plugs.

In addition, if delays resulting from air temperature, snow accumulation, and/or freezing rain occur and the Contractor has their bypass pumping system in place and operational, the Contractor shall still be responsible to continuously protect and maintain in operation the complete sewer flow control system. Expenses related to maintaining the bypass pumping system shall not be considered to be additional costs or extra expenses during an authorized extension of time due to these weather-related time extensions.

The Contractor shall anticipate underground utility complications arising from the proposed utility work, unknown and/or fragile utilities, and utilities requiring investigation and or relocation. These utilities may be shown on the Drawings, correctly or incorrectly, or not at all, and may delay a controlling operation.

Additional compensation is defined as additional work, extra work, upward unit price adjustments, payments for down time, and the like.

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DETAILED SPECIFICATION
FOR
ITEM #200 – GENERAL CONDITIONS, MODIFIED, MAXIMUM $100,000

DESCRIPTION

This item shall include all work described and required by the Plans and Specifications for which no item of work is listed in the Bid Form, including but not limited to:

- Scheduling and organization of all work, subcontractors, suppliers, testing, inspection, surveying, and staking
- Coordination of, and cooperation with, other contractors, agencies, departments, and utilities
- Protection and maintenance of Utilities
- Placing, maintaining, and removing all soil erosion and sedimentation controls, including stone inlets filers (as shown on project plants)
- Maintaining drainage
- Maintaining driveways drive openings, sidewalks, bike paths, mail deliveries, and solid waste/recycle pick-ups. This includes the placement and maintenance of gravel in driveway openings as directed by the Engineer
- Storing all materials and equipment off lawn areas
- Temporary relocation and final replacement/re-setting of mailboxes
- Site clean-up
- Coordination efforts to furnish various HMA mixtures as directed by the Engineer
- Coordination efforts to furnish and operate various-size vehicles/equipment as directed by the Engineer
- Furnishing and operating vacuum-type street cleaning equipment a minimum of once per week or more frequently as directed by the Engineer
- Furnishing and operating vacuum-type utility structure cleaning equipment
- Furnishing and operating both vibratory plate and pneumatic-type (“pogo-stick”) compactors
- Furnishing and operating a backhoe during all work activities
- Furnishing and operating a jackhammer and air compressor during all work activities
- Noise and dust control
- Mobilization(s) and demobilization(s)
- Furnishing submittals and certifications for materials and supplies
- Disposing of excavated materials and debris - The Contractor shall dispose of, at the Contractor’s expense, all excavated material. Costs for this work will not be paid for separately.
- All miscellaneous and incidental items such as overhead, insurance, and permits.
- Meeting all requirements relating to Debarment Certification, Davis Bacon Act, and Disadvantaged Business Enterprise, and providing the necessary documentation.

Data pertaining to existing soil borings and pavement sections which are included in Appendix B, of these Contract Documents are provided to help the Engineer and Contractor determine the soil conditions existing within the construction area. The City in no way guarantees existing conditions to be the same as shown in the data. The Contractor is solely responsible for any and all conclusions he/she may draw from the data.

Quantities as given are approximate and are estimated for bidding purposes. Quantities are not guaranteed and may vary by any amount. While it is the City's intent to complete the project substantially as drawn and specified herein, quantities may be changed or reduced to zero for cost savings or other reasons. **The City reserves the right to change the quantities, and no adjustment in unit price will be made for any change in any quantity.**

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DETAILED SPECIFICATION
FOR
ITEM #200 – GENERAL CONDITIONS, MODIFIED, MAXIMUM $100,000

MEASUREMENT AND PAYMENT

This item of work will be paid for on a pro rata basis at the time of each progress payment. Measurement will be based on the ratio between work completed during the payment period and the total contract amount. When all of the work of this Contract has been completed, the measurement of this item shall be 1.0 Lump Sum, minus any deductions incurred for inadequate performance as described herein. This amount will not be increased for any reason, including extensions of time, extras, and/or additional work.

The completed work as measured for this item of work will be paid for at the Contract Unit Price for the following Contract (Pay) Item:

PAY ITEM	PAY UNIT
General Conditions, Modified, Maximum $100,000	Lump Sum

The unit price for this item of work shall include all labor, material, and equipment costs to perform all the work specified in the Standard Specifications and as modified by this Detailed Specification.

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DETAILED SPECIFICATION
FOR
ITEM #201 - PROJECT SUPERVISION, MODIFIED, MAXIMUM $50,000

DESCRIPTION

The Contractor shall designate a full-time Project Supervisor to act as the Contractor's agent/representative, and to be responsible for scheduling and coordination of all subcontractors, suppliers, other governmental agencies, and all public and private utility companies.

The Project Supervisor shall not be an active crew member of the Contractor, shall not be an active member or employee of any subcontractor's work force, and shall not perform general or specialized labor tasks.

The Project Supervisor shall work exclusively on this project, and shall put forth his/her full effort into the organization and coordination of the work of this project.

Prior to the pre-construction meeting, the Contractor shall designate a proposed Project Supervisor by name, and shall furnish the City with a current, thorough, detailed summary of the proposed Project Supervisor's work history, outlining all previous supervisory experience on projects of a similar size and nature. The detailed work history shall include personal and professional references (names and phone numbers) of persons (previous owners or agents) who can attest to the qualifications and work history of the proposed Project Supervisor. Proposed candidates for Project Supervisor shall have a demonstrated ability to work harmoniously with the City, the public, subcontractors, and all other parties typically involved with work of this nature. The Supervising Professional will have the authority to reject a proposed Project Supervisor whom he/she considers unqualified.

The Project Supervisor shall be available 24 hours-per-day to provide proper supervision, coordination and scheduling of the project for the duration of the Contract. The Contractor shall furnish the City with telephone numbers of the Project Supervisor in order to provide 24 hour-per-day access during business and non-business hours, including weekends and holidays.

The Project Supervisor shall be equipped by the Contractor with a mobile telephone to provide the City with 24 hour-per-day access to him/her during daily construction activities, during transit to and from the construction site, and during all non-business hours including weekends and holidays.

The Project Supervisor shall be equipped with assistants as necessary to provide project supervision as specified herein, and in accordance with the Contract.

DUTIES AND RESPONSIBILITIES

The Project Supervisor work harmoniously with the City, the public, subcontractors, and all other parties typically involved with work of this nature.

The Project Supervisor shall have a thorough, detailed understanding and working knowledge of all construction practices and methods specified elsewhere herein, as well as the handling, placement, testing and inspection of aggregates, aggregate products, HMA concrete, and Portland cement concrete materials.

The Project Supervisor shall be responsible for all of the work of all of the Contractor's, subcontractors' and suppliers' work forces.

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The Project Supervisor shall be responsible for proper and adequate maintenance (emissions, safety, and general operation) of all of the Contractor's, subcontractors' and suppliers' equipment and vehicles.

The Project Supervisor shall be responsible for the legal, proper and safe parking/storage of all of the Contractor's, subcontractors' and suppliers' equipment, work vehicles, and employee's vehicles.

The Project Supervisor shall schedule and coordinate the work of all parties involved in the project, including utility companies, testing agencies, governmental agencies, all City departments (such as Utilities and Transportation), and City inspectors.

The Project Supervisor shall coordinate and schedule the work of any independent survey crews that may be retained by the City to witness and reset existing and new geographic/benchmark monuments. Failure to have existing monuments witnessed and reset may result in delays to the Contractor's work. Costs for such delays will be the Contractor's sole responsibility.

The Project Supervisor shall coordinate and schedule both testing inspectors and City inspectors in a timely manner, to assure proper and timely testing and inspection of the work.

The Project Supervisor shall review the Inspector's Daily Reports (IDRs) for accuracy, and shall sign all IDRs on a daily basis as the representative of the Contractor. Items to be reviewed include descriptions, locations and measurements of quantities of work performed, workforce, equipment, and weather. The Project Supervisor shall also be responsible for its subcontractors' review and initialing of IDRs containing work items performed by each respective subcontractors.

The Project Supervisor shall submit to the Engineer, an updated, detailed schedule of the proposed work on a weekly basis, and an update of all proposed changes on a daily basis, all in accordance with the Detailed Specification for Project Schedule contained elsewhere herein.

The Project Supervisor shall schedule and chair a weekly progress meeting with the Engineer and all subcontractors to discuss the work. Upon the completion of each meeting, the Project Supervisor shall prepare and distribute, to all present, a written summary of the meeting's minutes. Those in attendance shall review the minutes and, if necessary, comment on any deficiencies or errors prior to or at the next scheduled progress meeting.

ADDITIONAL PERFORMANCE REQUIREMENTS

If, in the sole opinion of the Supervising Professional, the Project Supervisor is not adequately performing the duties as outlined in this Detailed Specification, the following system of notices will be given to the contractor with the associated penalties:

First Notice – A warning will be issued in writing to the contractor detailing the deficiencies in the Project Supervision. The contractor must respond within 7 calendar days in writing with a plan to correct the stated deficiencies. Failure to respond within 7 calendar days will result in the issuing of a second notice.

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Second Notice – A second warning will be issued in writing to the contractor further detailing the deficiencies in the Project Supervision. The contractor must respond within 7 calendar days in writing with a plan to correct the stated deficiencies. Failure to respond within 7 calendar days will result in the issuing of a third notice. A deduction of 10% will be made from the original Project Supervision contract amount. At this time, the City reserves the right to meet with personnel with the necessary authority within the Contractor's organization to discuss the deficiencies in the Project Supervision.

Third Notice – An additional deduction of 25% will be made from the original Project Supervision contract amount, and the Project Supervisor shall be removed from the project, and replaced immediately with another individual to be approved by the Supervising Professional.

Should, in the sole opinion of the Supervising Professional, the Project Supervisor fail to perform his/her duties and responsibilities as described herein to such a degree that the successful completion of the project is put in jeopardy, the above system of notices may be foregone, and the Contractor shall immediately replace the Project Supervisor upon receipt of written notice. Failure to provide adequate project supervision, as determined by the Engineer, shall be considered basis for the Supervising Professional to suspend work without extension of contract time or additional compensation.

MEASUREMENT AND PAYMENT

This item of work will be paid for on a pro rata basis at the time of each progress payment. Measurement will be based on the ratio between work completed during the payment period and the total contract amount. When all of the work of this Contract has been completed, the measurement of this item shall be 1. 0 Lump Sum, minus any deductions incurred for inadequate performance as described herein. This amount will not be increased for any reason, including extensions of time, extras, and/or additional work.

The completed work as measured for this item of work will be paid for at the Contract Unit Price for the following Contract (Pay) Item:

PAY ITEM	PAY UNIT
Project Supervision, Maximum $50,000	Lump Sum

The unit price for this item of work shall include all labor, material, and equipment costs to perform all the work specified in the City Standard Specifications and as modified by this Detailed Specification.

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DETAILED SPECIFICATION
FOR
ITEM #202 – AUDIO VISUAL TAPE COVERAGE, MODIFIED

DESCRIPTION

This work shall include digital audiovisual record of the physical, structural, and aesthetic conditions of the construction site and adjacent areas as provided herein. This work will be performed for the entire project limits prior to the start of construction.

The audio-visual filming shall be:

1. Of professional quality, providing a clear and accurate audio and visual record of existing conditions.
2. Prepared within the four (4) week period immediately prior to the start of construction
3. Furnished to the Engineer a minimum of one (1) week prior to bringing any materials or equipment within the areas described in this Detailed Specification.
4. Carried-out under the supervision of the Engineer.

The Contractor shall furnish one (1) copy of the completed audiovisual record to the Engineer. An index of the footage shall be included, which will enable any particular area of the project to be easily found. **This includes indexing the files according to street and Station number as applicable.** The Contractor shall retain a second copy of the audiovisual record for his/her own use.

Any portion of the film determined by the Engineer to be unacceptable for the documentation of existing conditions shall be filmed again at the Contractor's sole expense prior to mobilizing onto the site.

PRODUCTION

The audio-visual filming shall be completed in accordance with the following minimum requirements:

1. DVD Format, No Editing - The filming shall be done in color using equipment that allows audio and visual information to be recorded. Splicing or editing of the tape shall not be allowed and the speed and electronics of the videotaping equipment and DVD shall be equal to that which is standard to the videotaping industry.

2. Perspective / Speed / Pan / Zoom - To ensure proper perspective, the distance from the ground to the camera lens shall not be less than 10 feet and the filming must proceed in the general direction of travel at a speed not to exceed 48 feet per minute. Pan and zoom rates shall be controlled sufficiently so that playback will ensure quality of the object viewed.

3. Display - The recording equipment shall have transparent time, date stamp and digital annotation capabilities. The final copies of the tape shall continuously and simultaneously display the time (hours:minutes:seconds) and the date (month/date/year) in the upper left-hand corner of the frame. Accurate project stationing, where applicable, shall be included in the lower half of the frame in standard format (i.e. 1+00). Below the stationing periodic information is to be shown, including project name, name of area shown, street address, direction of travel, viewing direction, etc. If in the event, the stationing has not been established on-site, refer to the plans and approximate the proposed stationing.

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4. Audio Commentary / Visual Features. Locations relative to project limits and landmarks must be identified by both audio and video means at intervals no longer than 100 feet along the filming route. Additional audio commentary shall be provided as necessary during filming to describe streets, buildings, landmarks, and other details, which will enhance the record of existing conditions.

5. Visibility / Ground Cover - The filming shall be performed during a time of good visibility. Filming shall not be performed during periods of precipitation or when snow, leaves, or other natural debris obstruct the area being filmed. The Contractor shall notify the Engineer in writing in the event that the weather or snow cover is anticipated to cause a delay in filming.

COVERAGE

The audio-visual film coverage shall include the following:

1. General Criteria - This general criteria shall apply to all filming and shall include all areas where construction activities will take place or where construction vehicles or equipment will be operated or parked and or where materials will be stored. The filming shall extend an additional 50 feet outside of all areas. The filming shall include all significant, existing man-made and natural features such as driveways, sidewalks, utility covers, utility markers, utility poles, other utility features, traffic signal structures and features, pubic signs, private signs, fences, landscaping, trees, shrubs, other vegetation, and other similar or significant features.

2. Other Areas - The Contractor shall film at his sole expense other areas where, in his/her opinion, the establishment of a record of existing conditions is warranted. The Contractor shall notify the Engineer in writing of such areas.

The Engineer may direct the filming of other minor areas not specified herein at the Contractor's sole expense.

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MEASUREMENT AND PAYMENT

The completed work as measured for these items of work will be paid for at the Contract Unit Prices for the following Contract (Pay) Items:

PAY ITEM	PAY UNIT
Audiovisual Tape Coverage, Modified	Lump Sum

Audiovisual Tape Coverage shall include all labor, equipment, and materials required to perform the filming and to provide the finished videotape the Engineer. The unit price includes filming the entire project limits, for each and every street, as described above.

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DETAILED SPECIFICATION
FOR
ITEM #203 – MINOR TRAFFIC CONTROL, MODIFIED, MAXIMUM $100,000

DESCRIPTION

The work shall include, but is not limited to the following:

- The furnishing and operating of miscellaneous signs, warning devices, traffic regulators, flags, paddles, and cones;
- The operation of additional signs furnished by the City;
- Furnishing and installing meter bags;
- Coordinating with the City to have meter heads removed and reinstalled;
- Maintaining pedestrian traffic;
- Temporarily covering traffic controls;
- Temporarily covering existing signs as directed;
- Any and all other miscellaneous and/or incidental items which are necessary to properly perform the work.

This work shall consist of protecting and maintaining vehicular and pedestrian traffic, in accordance with Sections 104.11and 812 of the of the Michigan Department of Transportation (MDOT) 2020 Standard Specifications for Construction; Part 6 of the 2011 Edition of the Michigan Manual of Uniform Traffic Control Devices (MMUTCD); and the City of Ann Arbor Standard Specifications for Construction, except as modified herein.

MATERIALS, EQUIPMENT, AND CONSTRUCTION METHODS

Materials and equipment shall meet the requirements specified in the above designated sections of the MDOT 2020 Standard Specifications for Construction.

The Contractor shall maintain two-way traffic on major streets, access for local traffic on local streets, and keep all intersections open to traffic at all times, unless specifically authorized in writing by the Engineer.

The Contractor shall maintain traffic such that no vehicle shall be required to drive into active work areas. Patch areas which extend more than halfway across the roadway shall be removed and replaced so as to provide a minimum of half the pavement width at all times for maintaining traffic.

The Contractor shall keep all driveways open at all times, unless specifically authorized in writing by the Engineer.

The Contractor shall maintain pedestrian traffic at all times. For maintaining normal pedestrian traffic while performing sidewalk and driveway repair, Plastic Drum, High Intensity, Lighted shall be placed by the Contractor as directed by the Engineer. The Contractor, when directed by the Engineer, shall place "Sidewalk Closed" and/or "Cross Here" signs and the cost shall be included in this pay item and will not be paid for separately.

All temporary traffic/pedestrian control devices furnished by the Contractor shall remain the property of the Contractor. The City shall not be responsible for stolen or damaged signs, barricades, barricade lights or other traffic maintenance items. The Contractor shall replace missing traffic control devices immediately, at no additional cost to the Contract or City.

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All existing signs, and signs erected by the City of Ann Arbor on this project shall be preserved, protected, and maintained by the Contractor. The City will repair any existing City owned signs, at the Contractor's expense, which are damaged by the Contractor during the work.

The Contractor shall obtain a Traffic Detour or Lane Closure Permit from the City's Project Management Services Unit, at least 48 hours in advance of any proposed lane or street closing.

Traffic on major streets should not be impacted between the hours of 7:00 a.m. to 9:00 a.m. and from 3:30 p.m. to 6:00 p.m. without written permission from the Engineer or as specified on the Lane Closure Permit. All major changes in traffic control shall be made either between 9:00 a.m. and 3:30 p.m. or between 7:00 p.m. and 6:30 a.m. in order to minimize interference with rush hour traffic. All traffic controls must be in place and ready for traffic each day by 6:30 a.m. and 3:30 p.m.

The hours of work on all local streets are 7:00 a.m. to 8:00 p.m., Monday through Saturday, or as specified on the Lane Closure Permit. No equipment will be allowed in the street before or after these hours. Local streets may only be closed to through traffic (local access only) with written authorization of the Engineer. Work must be completed each day such that all streets are re-opened to through traffic by 8:00 p.m. unless otherwise specified, directed, or authorized in writing by the Engineer.

The Contractor shall temporarily cover conflicting traffic and/or parking signs when directed by the Engineer.

Parking violation citations issued to the Contractor, subcontractor, and material suppliers including each of their respective employees shall be enforced under appropriate City Code.

The Contractor shall replace missing or damaged traffic control devices as directed by the Engineer. When traffic control devices have been damaged by, or due to, the negligence of the Contractor, its subcontractors or material suppliers, the traffic control devices shall be replaced at the Contractor's expense.

The work for Minor Traffic Control, Modified shall include: furnishing and operating of miscellaneous signs and warning devices; furnishing cones; operating additional signs furnished by the City throughout the life of the Contract; furnishing and operating pedestrian traffic control devices; maintaining a safe trench during all non-working hours; maintaining access to all drives; covering conflicting existing signs and removal of these covers; and any and all other miscellaneous and/or incidental items which are necessary to properly perform the work.

Where there is metered parking, the Contractor shall either rent and install meter bags, or, with the Engineer's authorization, coordinate with the City Field Services to have meter heads removed and reinstalled.

The Contractor shall maintain vehicular and pedestrian traffic during the work by the use of traffic regulators, channelizing devices and signs as necessary, as directed by the Engineer, and in accordance with 2011 Edition of the MMUTCD. Typical applications for maintaining pedestrian traffic in accordance with the 2011 Edition of the MMUTCD are included in this detailed specification.

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In order to maintain areas of on-street parking available for residents, the Engineer may direct the contractor to cover and uncover temporary "No Parking" signs within the project limits multiple times throughout the course of the project. Such repeated covering and uncovering of signs shall be included in this item of work and shall not be paid for separately.

MEASUREMENT AND PAYMENT

All temporary traffic/pedestrian control devices furnished by the Contractor shall remain the property of the Contractor. The City shall not be responsible for stolen or damaged signs, barricades, barricade lights or other traffic maintenance items. The Contractor shall replace missing traffic control devices immediately, at no additional cost to the City.

Costs for transporting barricades and other temporary traffic control devices shall be included in the bid prices for the individual items of work.

Minor Traffic Control, Modified, Maximum $25,000 will be paid for on a pro rata basis with each progress payment. Measurement will be based on the ratio between work completed during the payment period and the total contract amount. When all of the work of this Contract has been completed, the measurement of this item shall be 1.0 Lump Sum minus any deductions incurred for inadequate performance as described herein. This amount will not be increased for any reason, including extensions of time, extras, and/or additional work.

The completed work as measured for these items of work will be paid for at the Contract Unit Price for the following Contract (Pay) Items:

PAY ITEM	PAY UNIT
Minor Traffic Control, Modified, Maximum $100,000	Lump Sum

The unit price for this item of work shall include all labor, material, and equipment costs to perform all the work specified in the MDOT and City Standard Specifications for Construction, and as modified by this Detailed Specification.

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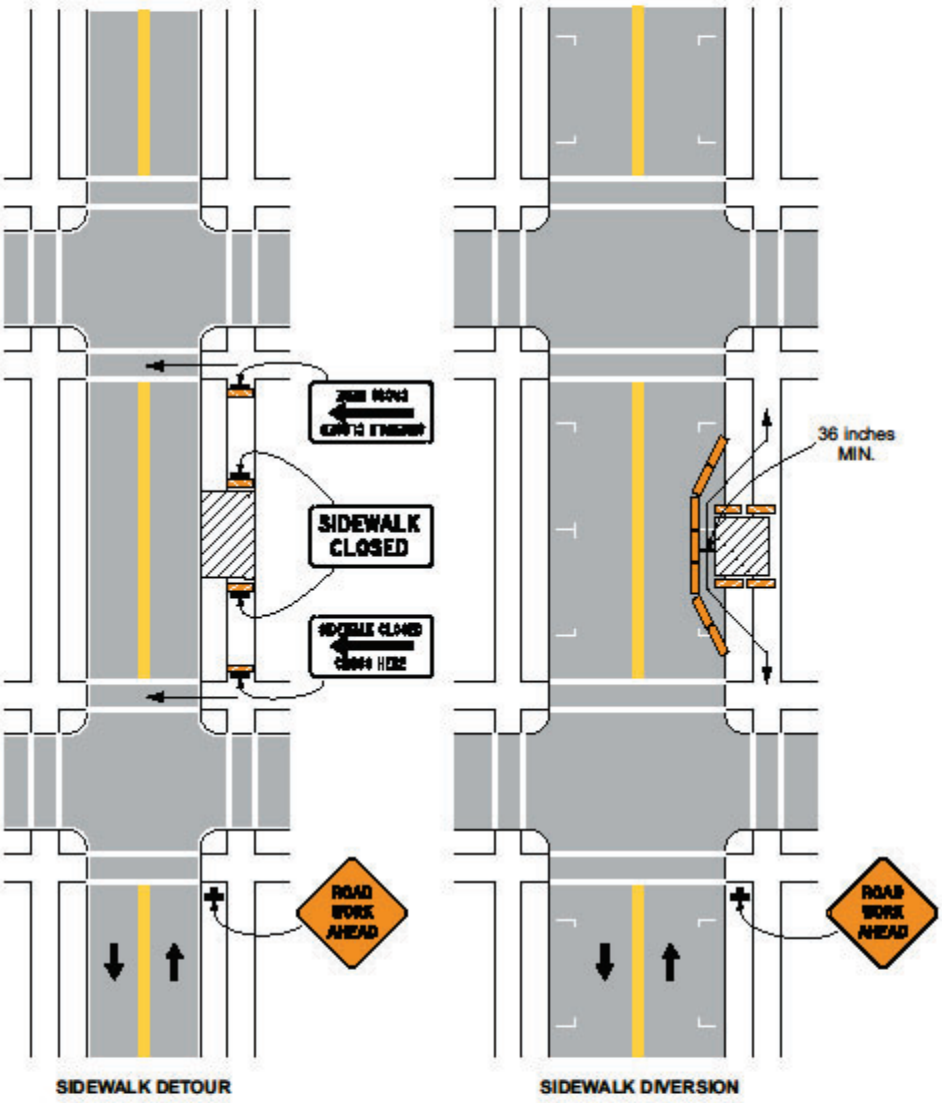
Figure 6H-28. Sidewalk Detour or Diversion (TA-28)



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Note: See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used in this figure.

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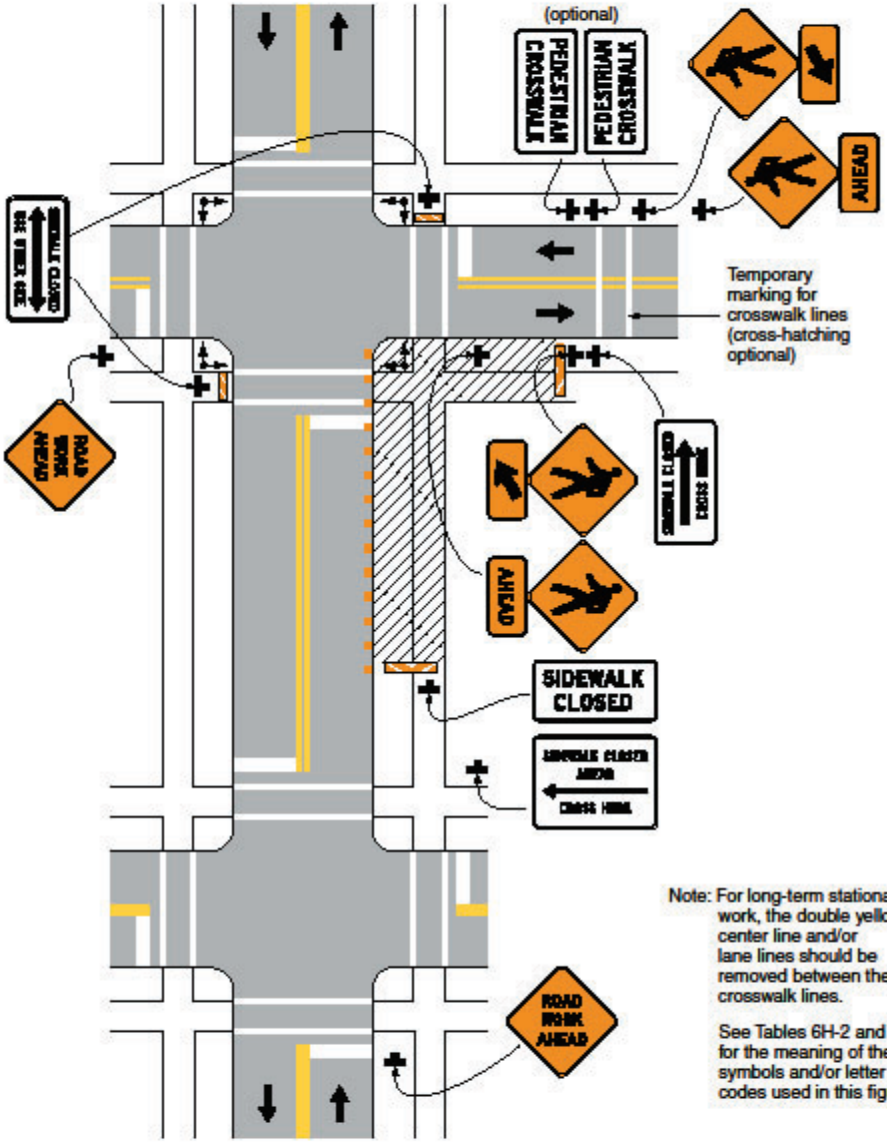
Figure 6H-29. Crosswalk Closures and Pedestrian Detours (TA-29)



Note: For long-term stationary work, the double yellow center line and/or lane lines should be removed between the crosswalk lines.

See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used in this figure.

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DETAILED SPECIFICATION
FOR
ITEMS #204/205 – BARRICADE, TYPE III, HIGH INTENSITY, DOUBLE SIDED, LIGHTED, FURN/OPER
ITEMS #206/207 – CHANNELIZING DEVICE, 42 INCH, FURN/OPER
ITEMS #208/209 – LIGHTED ARROW, TYPE C, FURN/OPER
ITEMS #210/211 – PLASTIC DRUM, HIGH INTENSITY, LIGHTED, FURN/OPER
ITEMS #212/213 – SIGN, TYPE B, TEMP, PRISMATIC, FURN/OPER

DESCRIPTION

This work shall consist of protecting and maintaining vehicular and pedestrian traffic in accordance with Sections 140.11, 812, and 922 of the Michigan Department of Transportation (MDOT) 2012 Standard Specifications for Construction; Part 6 of the 2011 Edition of the Michigan Manual of Uniform Traffic Control Devices (MMUTCD); and the City of Ann Arbor Standard Specifications for Construction, except as modified herein.

MATERIALS, EQUIPMENT, AND CONSTRUCTION METHODS

Materials and equipment shall meet the requirements specified in the above designated sections of the MDOT 2012 Standard Specifications for Construction.

The Contractor shall maintain traffic such that no vehicle shall be required to drive into active work areas. Patch areas which extend more than halfway across the roadway shall be removed and replaced so as to provide a minimum of half the pavement width at all times for maintaining traffic.

The Contractor shall maintain pedestrian traffic at all times. For maintaining normal pedestrian traffic while performing sidewalk and driveway repair, Type III Barricades and/or Plastic Drums shall be placed by the Contractor, as directed by the Engineer. "Sidewalk Closed" and/or "Cross Here" signs shall be placed, by the Contractor, when directed by the Engineer.

All temporary traffic/pedestrian control devices furnished by the Contractor shall remain the property of the Contractor. The City shall not be responsible for stolen or damaged signs, barricades, barricade lights or other traffic maintenance items. The Contractor shall replace missing traffic control devices immediately, at no additional cost to the City.

All existing signs, and signs erected by the City of Ann Arbor on this project shall be preserved, protected, and maintained by the Contractor. Existing City owned signs which are damaged by the Contractor during the work will be repaired by the City at the Contractor's expense.

Parking violation citations issued to the Contractor, subcontractor, and material suppliers including each of their respective employees shall be enforced under appropriate City Code.

The Contractor shall replace missing or damaged traffic control devices, as directed by the Engineer. When traffic control devices have been damaged by, or due to, the negligence of the Contractor, his subcontractors or material suppliers, the traffic control devices shall be replaced at the Contractor's expense.

Lighted Plastic Drums, Type III Barricades, and Type B Temporary Signs

The Contractor shall furnish and operate these items as directed by the Engineer.

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Type III Barricades shall have standard orange-and-white stripes on both sides of the barricade.

Sufficient signs shall be provided by the Contractor to insure the safety of the workers and the general public in accordance with the 2011 Edition of the MMUTCD.

"Construction Ahead" warning signs shall be placed, as indicated on the Plans, or as directed by the Engineer, prior to the start of work, regardless of the nature, magnitude or duration of the work.

MEASUREMENT AND PAYMENT

All temporary traffic control devices furnished by the Contractor shall remain the property of the Contractor. The City shall not be responsible for stolen or damaged signs, barricades, barricade lights or other traffic maintenance items. The Contractor shall replace missing traffic control devices immediately, at no additional cost to the City.

Costs for transporting barricades and other temporary traffic control devices shall be included in the bid prices for the individual items of work.

Barricade, Type III, High Intensity, Double Sided, Lighted, Furn/Oper

Payment for furnishing and operating lighted Type III barricades shall be for the maximum quantity in-place at any one time during the work of the entire project (all streets).

Channelizing Device, 42 inch, Furn/Oper

There will be a one-time payment for each street for the maximum number of channelizing devices in-place (operated) at any one time, as directed by the Engineer.

Lighted Arrow, Type C, Furn/Oper

Payment for lighted arrow shall be for the maximum quantity used on each street.

Plastic Drum, High Intensity, Lighted, Furn/Oper

There will be a one-time payment for each street for the maximum number of plastic drums in-place (operated) at any one time, as directed by the Engineer.

Sign, Type B, Temp, Prismatic, Furn/Oper

Payment for temporary signs shall be for the maximum quantity used on each street.

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DETAILED SPECIFICATION
FOR
ITEMS #204/205 – BARRICADE, TYPE III, HIGH INTENSITY, DOUBLE SIDED, LIGHTED, FURN/OPER
ITEMS #206/207 – CHANNELIZING DEVICE, 42 INCH, FURN/OPER
ITEMS #208/209 – LIGHTED ARROW, TYPE C, FURN/OPER
ITEMS #210/211 – PLASTIC DRUM, HIGH INTENSITY, LIGHTED, FURN/OPER
ITEMS #212/213 – SIGN, TYPE B, TEMP, PRISMATIC, FURN/OPER

The completed work as measured for these items of work will be paid for at the Contract Unit Price for the following Contract (Pay) Items:

PAY ITEM	PAY UNIT
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Each
Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Each
Channelizing Device, 42 inch, Furn	Each
Channelizing Device, 42 inch, Oper	Each
Lighted Arrow, Type C, Furn	Square Foot
Lighted Arrow, Type C, Oper	Square Foot
Plastic Drum, High Intensity, Lighted, Furn	Each
Plastic Drum, High Intensity, Lighted, Oper	Each
Sign, Type B, Temp, Prismatic, Furn	Each
Sign, Type B, Temp, Prismatic, Oper	Each

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DETAILED SPECIFICATION
FOR
ITEM #214 – "NO PARKING" SIGN

DESCRIPTION

This work shall consist of installing, maintaining and removing of "No Parking" signs and posts as outlined herein and as referenced on the plans. "No Parking" signs shall be installed in accordance with the Public Services Department Standard Specifications and the 2011 Michigan Manual of Uniform Traffic Control Devices (MMUTCD).

MATERIAL

All materials for this work shall conform to the requirements of the Public Services Department Standard Specifications.

CONSTRUCTION METHODS

Prior to the commencement of any construction activity, the Contractor shall place "No Parking" signs as directed by the Engineer. The Contractor shall obtain a permit for "Temporary Permission of Reserve Parking Lane for Work Related Purposes" from the City's Project Management Services Unit. This permit shall be obtained a minimum of 5 business days prior to the posting of "No Parking" signs.

The City will furnish "No Parking" signs to the Contractor at no cost. The Contractor shall furnish the signposts and shall securely bolt the signs to the signposts as directed by the Engineer. The Contractor shall install the signposts at least two feet deep into the ground, and there shall be a minimum of six feet and maximum of seven feet of clearance maintained between the bottom of the sign and the ground. The signs are to be placed at intervals no more than 150 feet and as necessary to eliminate parking in the construction area.

The installation of "No Parking" signs shall be in accordance with the permit. "No Parking" signs shall be installed by the Contractor, as directed by the Engineer, at least 48 hours prior to the proposed start-of-work/enforcement date. "No Parking" signs shall be covered by the Contractor, thereby allowing on-street parking, until between 48 and 24 hours prior to the start of the work. "No Parking" signs shall be covered by the Contractor whenever there is no work being performed for a period of time longer than 72 hours. "No Parking" signs shall be returned to the City upon the completion of work. The cost of unreturned signs will be back charged to the Contractor.

MEASUREMENT AND PAYMENT

The unit price for this item of work shall include all labor, material, and equipment costs to perform all the work specified in the Standard Specifications and as modified by this Detailed Specification.

PAY ITEM	PAY UNIT
"No Parking" Sign	Each

"No Parking" signs will be measured as the maximum number installed on each street at any one time. The unit price includes the removal and return of "No Parking" signs to the City upon completion of the project. The Contractor shall be back charged for the replacement costs for damaged or unreturned signs.

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DETAILED SPECIFICATION
FOR
SEWER FLOW CONTROL

DESCRIPTION

The work covered by this Detailed Specification shall consist of furnishing all labor, supervision, tools, equipment, appliances, materials, incidental items, and the installation, operation, and maintenance needed to perform all operations in connection with the diversion of flow and bypass pumping of sanitary sewage for cleaning and inspecting of sewers and manholes, and sewer rehabilitation procedures. The purpose of which is to provide un-interrupted sewerage service at all times and to prevent sewage overflows.

It is the intent of this project to divert dry weather upstream sanitary sewer flow within the work zone to other City of Ann Arbor (City) sanitary sewers by installing plugs in the sewer system. The flows from the various laterals to the smaller diameter sewers connected to the sanitary sewer in the work zone shall be bypass pumped to a manhole downstream of the work zone. The design, installation, and operation of the temporary sewer flow control system shall be the Contractor's sole responsibility.

When working inside manholes or sewer, the Contractor shall exercise caution and comply with Occupational Safety and Health Administration (OSHA) and City requirements for working in confined spaces.

The Contractor shall manage, plan, and execute their operations such that there will be no backups, leaks, overflows or unauthorized discharges of sewerage. The Contractor shall be completely responsible for the proper clean-up and any environmental remediation as may be required by the City and the EGLE for any backup, leak, spill, or sanitary sewerage overflow.

SUBMITTALS

The Contractor shall provide a detailed Sewer Flow Control Plan to the Engineer for review and acceptance prior to the start of any flow control work. This plan must include descriptions outlining all provisions and precautions to be taken by the Contractor regarding the handling of existing flow. The Sewer Flow Control Plan must be specific, including such items as schedules, locations, elevations, capacities of the equipment, materials, and all other incidental items necessary and/or required to ensure proper protection of the facilities, including protection of existing structures and pipes, and compliance with the requirements and conditions specified in the Contract Documents. The flow control plan shall be submitted to the Engineer for review and approval in accordance with Section 104.02 of the 2020 edition of the Michigan Department of Transportation Standard Specifications for Construction. No construction shall begin until all provisions and requirements have been reviewed and accepted in writing by the Engineer.

For each submittal and re-submittal, the Contractor shall allow at least 14 calendar days from the date of the submittal to receive the Engineer's acceptance or request for revisions. The Engineer's comments shall be incorporated into the re-submitted plans, calculations, and descriptions. The Engineer's written acceptance of the plan is required before beginning the work. Re-submittals shall be reviewed and returned to the Contractor within 14 calendar days. Required revisions will not be a basis of payment for additional compensation, extra work, or an extension of contract time. The Contractor shall include time for this entire review process in their schedule.

Sewer Flow Control Plan submittal shall include at a minimum:

1. Overall flow control plan and sequence of construction;

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2. Flow control schedule including times when the flow control system shall be temporarily shut down and flow allowed to return to normal operations;

3. Overall plan for removal of flow control system during wet weather events and/or emergency situations;

4. Plan for providing redundancy for all aspects of the system especially the plugs;

5. Safety Program for confined space entry and procedure for entering manholes and installing plugs under live flow conditions;

6. Emergency clean-up plan should a spill occur or backups in the system occur. The plan should include at a minimum:

I. Contact names and 24-hour phone numbers

II. Emergency cleanup plan for any residences that experience backups caused by bypass pumping operational failures, including list of proposed cleanup contractors

III. Vactor truck and lime on site at all times;

IV. Spill kits for all storm drains in bypass pumping work zone this also includes “Pig Drain Blocker Drain cover” or approved equal;

V. Additional Traffic Control Measures (stored on site) to do a temporary detour;

VI. All employees on the job site must be familiar with SOP in case of a failure

7. Procedure for continuous (24 hour) monitoring of system, including verifying that plugs are sealed, and lateral bypass pumping system is operating. The plan is to include type and location of level sensors, method of installation, set elevations of sensors, and continuous monitoring system; high level alarms;

8. Maintenance of traffic plan for plug installation and removal in public roadways;

9. Sewer plug types, method of installation and removal, anchors and restraints, and hydraulic head limits;

10. Lateral bypass pump sizes, capacities, power requirements, and number of each size to be provided at each manhole including redundancy;

11. Calculations giving flow capacity provided by each pump given the system’s Total Dynamic Head (TDH), including the calculations that are used to derive the system TDH. This data should also include the calculations determining what the Net Positive Suction Head available is in comparison to the Net Positive Suction Head required by each pump. Pump curves shall be submitted;

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12. Number, size, material, and location of lateral bypass pumping suction and discharge piping, procedure for protecting lines, and location of bypass pumping discharge manhole;

13. Lateral bypass pumping system flushing and drainage plan;

14. Buried bypass pipe locations and details;

15. Environment protection including pump containment and leak detection;

16. Method of protecting discharge manholes or structures from erosion and damage;

17. Method of noise control for each pump; and,

18. Design plans for access to bypass pumping locations indicated on the Drawings.

FLOW DIVERSION EQUIPMENT

Provide materials and equipment suitable for, and known to be reliable to meet, the flow diversion requirements as shown on the Drawings and as needed for the Contractor's operations.

The plug shall be a temporary plug that allows for quick removal in case of emergency or wet weather situation and re-installation after wet weather event has passed. Plugs shall be capable of withstanding minimum static head pressure of 15 feet. Plugs shall include form or bracing, anchoring, or restraint to keep plugs properly installed. Plugs should be of the type capable of being installed under live flow conditions and in depths exceeding 35 feet as shown on the Drawings. Plugs should be able to be installed in either the incoming or outgoing pipe in a manhole and allow for quick removal under surcharged conditions.

Pressure gages shall be installed with the plugs to continuously monitor the plugs and adjust the air pressure as needed to maintain full blockage of flow.

Ultrasonic level sensors shall be installed, at a minimum, in both discharge and intake manholes and any additional sensors as directed by the Engineer. The Contractor may elect to install sensors in other locations at their expense if they so choose. The Contractor shall be responsible for the installation and maintenance of the sensors. The level sensors shall provide continuous level readings that the Contractor shall be able to review remotely to monitor the level in the system during flow diversion. The level sensors shall provide notifications and alarms to allow the Contractor time to remove the plugs should an emergency or a wet weather event occur.

LATERAL BYPASS PUMPING EQUIPMENT

Provide materials and equipment suitable for, and known to be reliable to meet, the bypass pumping requirements.

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The pumps must be capable of passing a minimum of a 3-inch solid. All pumps must be constructed to allow dry running for long periods of time to accommodate the cyclical nature of effluent flows.

Equipment used for bypass pumping shall be sufficient to handle anticipated average and peak flows from each sewer. The Contractor shall maintain sanitary sewer flows within their bypass pumping system, including all wet weather flows.

The Contractor shall take into account seasonal variations and include a safety factor above the indicated peak flow values in sizing pumping equipment.

For sanitary sewerage, bypass piping shall be PVC Schedule 80, or equivalent, with solvent welded joints; or HDPE with butt fused joints. The Contractor shall perform hydrostatic testing of bypass pump discharge pipes in accordance with ASTM F2164 for HDPE or ASTM F2261 for PVC pipe, prior to operating bypass pumping system to ensure structural integrity of pipeline. Any defects or leaks found during testing shall be repaired and the pipeline shall be re-tested until results are satisfactory in accordance with the ASTM standard, and as acceptable to the Engineer.

REDUNDANT EQUIPMENT

The Contractor shall have redundant flow diversion equipment including, but not limited to, plugs and level sensors, available for immediate use at the job site at all times in the event of a failure.

Any damage to the Contractor's equipment, sewer system, or delays to the Contractor's operations due to equipment or plug failure/leakage shall be the Contractor's sole responsibility and no additional payment shall be made for these occurrences. The Contractor shall take all necessary precautions to verify that the plugs and flow diversion plan is operational prior to performing the work.

The Contractor shall have redundant lateral bypass pumping equipment installed and ready for immediate operation and use in the event of an emergency or primary system breakdown or failure. The standby system shall be capable of pumping dry weather and peak flow. The standby pump(s) shall not be considered as any part of the primary system as designed for peak flow. The Contractor shall also furnish and have available onsite, and ready for operation, redundant pumping ancillary equipment in case of any failure of the pumping system including piping, electrical equipment, pipe appurtenances, etc. Redundant pumping facilities shall also include having a backup power generator in case the primary power source fails.

The Contractor shall not obstruct flows in the sewer unless the primary and redundant equipment is onsite and in operable condition and authorization has been granted by the Engineer.

FLOW DIVERSION

The Contractor shall install plugs and level sensors in both discharge and intake manholes and any additional sensors as directed by the Engineer and test the system for a minimum of 48 hours prior to the start of any other work onsite. The Contractor, City, and Engineer shall review the flow diversion during the testing period, including flow levels in the manholes. The Contractor shall not start any other work onsite until acceptance of the diversion test.

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LATERAL BYPASS PUMPING

Service laterals that enter the mainline sewer shall be bypass pumped to the downstream bypass pumping manhole. At no time shall plugging and/or blocking of flow from lateral service connections be permitted.

The Contractor shall construct and maintain bypass pumping facilities as needed that will pump at the required flow rates. The Contractor shall provide the City with a minimum of 7 days advance notice prior to initiating the sanitary sewer bypass pumping system.

The Contractor is responsible for obtaining any approvals for placement of the temporary equipment and/or piping within public ways from the Agency having jurisdiction.

The Contractor shall provide an adequate labor force and have designated personnel onsite for maintenance and operation, and emergency back-up service, of the bypass pumping facility 24 hours per day 7 days per week during bypass operations.

Anytime bypass pumping operations cease as required due to weather conditions described in Detailed Specification "Extension of Time, Additional Compensation" or as required by the Engineer, the Contractor shall drain the bypass pump discharge line back into the sanitary system as described in the Sewer Flow Control Plan and as directed by the Engineer to avoid freezing of the pipeline. Under no circumstances shall sanitary sewage within the bypass discharge line be drained to the storm system, or any other surface water.

The Contractor is to arrange for and provide all necessary temporary power, electrical service, board switches, etc. as required by DTE Energy and the National Electrical Code (NEC) current edition to provide temporary bypass pumping.

All bypass pumping discharge pipes shall be protected from the pipe header to the discharge structure. The Contractor shall provide necessary fittings or deflection in pipe to route pipe as necessary to minimize environmental impact and conflict with pedestrian, construction, and emergency vehicle traffic. When the bypass pipeline crosses drives or trails, or when pipeline is within any Contractor work zone/staging area, the Contractor shall place the bypass pipeline in a casing pipe and bury in temporary trenches with compacted backfill or any other approved method, as indicated on the Drawings, as required for the Contractor's operations, and as approved by the Engineer. All work associated with temporary bypass discharge pipe trench, including but not limited to piping, fittings, deflections, casing, spacers, trenching, and backfill shall be included in the contract pay item "Sewer Flow Control."

WET WEATHER EVENT

A wet weather event is defined as an event that causes the flow in the system to surcharge.

When a wet weather event occurs, the Contractor shall cease all operations in the sewer system and remove all plugs. The plugs shall be removed as not to cause a surge downstream.

It is the Contractor's responsibility to monitor the weather and verify weather conditions prior to the start of any work that could have an impact on the capacity of the affected sewers. Any damage to the

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Contractor's equipment, sewer system, or delays to Contractor's operations due to wet weather conditions shall be the Contractor's sole responsibility and no additional payment shall be provided.

The only exception to that is if the temporary removal of the flow diversion plugs and lateral bypass pumping system occurred after the sewers had been cleaned, televised, prepped for lining, and approved by the Engineer before the sewers were lined. In such an event, the Contractor may request compensation for the re-cleaning of the pipes only. The re-cleaning must first be approved by the Engineer prior to the work beginning.

No compensation shall be provided for the removal and re-installation of the plugs due to wet weather events as described in Detailed Specification "Working in the Rain."

NOISE CONTROL

All noise generated by the bypass pumping operation shall not exceed the safe sound limits, and shall follow necessary procedures as required for temporary exemptions, as defined in Detailed Specification "Hours of Work."

FLOW DIVERSION AND BYPASS PUMPING COMPLETION

At the end of the flow control operation, and after receipt of written permission from the Engineer, the Contractor shall remove all flow diversion and bypass pumping equipment, including level control system, temporary power equipment, and suction/discharge piping in a manner that permits the sewage flow to return to normal without overflowing to the environment, surcharging, or causing other major disturbances to the system. The Contractor shall restore all disturbed areas and structures, and restore all pavement in accordance with Detailed Specification, "Project Clean-Up and Restoration, Special" and as directed by the Engineer.

The duration of the bypass pumping shall be determined by the Contractor as needed to perform the work under this contract while maintaining un-interrupted sewage service.

FLOW CONTROL PRECAUTIONS

When flow in a sewer line is bypassed or plugged, sufficient precautions must be taken to protect the sewer liner and the Contractor's operations from damage that might result from sewer surcharging. Further, precautions must be taken to ensure that sewer flow control operations do not cause flooding or damage to public or private property being served by the sewers involved. At no time shall sewage be pumped in or allowed to flow into a catch basin, storm sewer, open watercourse or any other surface water.

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MEASUREMENT AND PAYMENT

The completed work shall be paid for at the contract unit price for the following contract pay item:

PAY ITEM	PAY UNIT
Sewer Flow Control	Lump Sum

The contract unit price for this item shall include all labor, supervision, tools, permits, shop drawing submittals, materials, equipment, operation, any incidental items, and all other work as noted on the Drawings and as specified herein to allow the Contractor to perform the work of diverting and bypass pumping flows as detailed herein.

The installation, maintenance, operation, monitoring, and removal of the level sensors shall not be paid for separately, but shall be included in the item of work "Sewer Flow Control."

The cost for the sewer flow control shall be paid for as a Lump Sum item regardless of the duration, number of, and/or duration of the wet weather events encountered, flow encountered, weather conditions, or number of times flow control system is temporarily removed and re-installed.

30% of the lump sum shall be paid for Sewer Flow Control following the initial installation, 48-hour test, and acceptance of the system by the Engineer. The remainder of the cost shall be paid for at the conclusion of all flow diversion activities and after the removal of all equipment from the site.

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DETAILED SPECIFICATION
FOR
CIPP SEWER LINING

DESCRIPTION

This work shall consist of rehabilitating pipelines by the insertion of a resin impregnated flexible lining and cured-in-place to form a pipe. The cured-in-place pipe (CIPP) shall be saturated with a thermosetting resin and inserted into the existing pipeline. Curing shall be accomplished by circulating hot water or steam to harden the resin into a hard impermeable pipe. When cured, the hardened CIPP shall be a tight fitting watertight pipe within a pipe. The CIPP shall be continuous from manhole to manhole with no circumferential joints or seams. Except as otherwise specified herein, all work shall be performed in accordance with the City of Ann Arbor (City) Public Services Area Standard Specifications, and as directed by the Engineer.

For a CIPP system to be considered acceptable, the CIPP system must have at least two million lineal feet of successful, documented installations, a minimum of 250,000 lineal feet of which shall have been in Midwestern United States or Canada.

When requested by the Engineer, the Contractor shall submit test results from previous field installations of the same resin system and tube materials as proposed for this installation. The test results must verify that the CIPP physical properties specified in this Detailed Specification have been achieved in the field.

The lining operation shall not begin until the sewer has been cleaned and video inspected in accordance with the Detailed Specification "Cleaning and Televising Sewer and Manholes" and authorization to begin by the Engineer has been granted.

DESIGN CONSIDERATIONS

The required structural CIPP wall thickness shall be based, at a minimum, on the physical properties of the cured composite and per the design of the Professional Engineer. The finished liner shall be designed per ASTM F1216 Appendix X1 for the following condition:

Condition	Fully deteriorated gravity pipe
Safety Factor	2
Ovality	As measured by Contractor during sewer inspection, assume 2% for bidding purposes
Soil Density	130 pounds per cubic foot (lbs/cft)
Soil Modulus	700 pounds per square inch (psi) for pipe inverts up to and including 15 feet deep, 1,000 psi for pipe inverts greater than 15 feet deep
Groundwater Depth:	As field verified
Surcharge Loading	HS-20 (Highway) when any part of the sewer is under any major street, county road, or state highway; E-80 (Railroad) when under any railroad.

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The acceptable resin system values to be incorporated into the formula for liner thickness shall not be greater than the following:

Table 1

	Polyester	Enhanced Polyester	Vinyl Ester	Epoxy
Short Term Flexural Modulus (psi)	300,000	400,000	250,000	300,000
Long Term Flexural Modulus (psi)	150,000	200,000	125,000	150,000
Creep Retention Factor	50%	50%	50%	50%
Flexural Strength (psi)	4,500	4,500	4,500	5,000

Where the requirements of this specification conflict with ASTMF 1216 or ASTM D5813 this Detailed Specification shall govern.

The Contractor shall determine the liner thickness and resin quantity for this project per ASTM F1216, Appendix X1. Liner thickness, resin, and resin quantity shall be furnished to the Engineer for review and approval prior to beginning work. The design calculations for wall thickness shall be completed by a Professional Engineer proficient in the design of pipeline systems, licensed in the State of Michigan, with design calculations signed and sealed. The CIPP design shall assume no bonding to the original pipe wall.

The Contractor shall submit, prior to installation of the lining materials, certification of compliance with these specifications. Certified material test results shall be included that confirm that all materials conform to these specifications. Materials not complying with these requirements will be rejected.

For each submittal and re-submittal, the Contractor shall allow at least 14 calendar days from the date of the submittal to receive the Engineer's acceptance or request for revisions. The Engineer's comments shall be incorporated into the re-submitted plans, calculations, and descriptions. The Engineer's acceptance of the submittal is required before beginning the work. Re-submittals shall be reviewed and returned to the General Contractor within 14 calendar days. Required revisions will not be a basis of payment for additional compensation, extra work, or an extension of contract time. The Contractor shall include time for this entire review process in their schedule.

MATERIAL

All materials shipped to the project site shall be accompanied by test reports certifying that the material conforms to the ASTM standards listed herein. Materials shall be shipped, stored, and handled in a manner consistent with written recommendations of the CIPP system manufacturer to avoid damage. Onsite storage locations shall be as indicated on the Drawings and approved by the Engineer.

Preliner Tube.- The preliner shall be a polyethylene material compatible with the lining system, and shall be utilized where necessary to accommodate infiltration, damaged, or missing pipe.

Felt Liner Tube.- The tube shall consist of one or more layers of absorbent, flexible, non-woven felt material. The tube shall be capable of carrying the specified resin, constructed to be able to withstand installation pressures and curing temperatures, have sufficient strength to bridge missing pipe and stretch to fit irregular pipe sections at all pipe locations, and be compatible with the resin used.

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The outer tube coating shall consist of an impermeable, flexible membrane that contains the resin and allows for visual inspection and verification of proper resin impregnation ("wet-out") procedure. The coating shall hold the resin inside the tube without leakage, accommodate installation, and stretch to the size and shape of the existing sewer, and shall not delaminate before, during, or after curing.

The tube shall have a uniform thickness that when compressed at installation pressures will meet, or exceed, the design thickness. The thickness of the tube shall be calculated based upon the resin system values given in this Detailed Specification.

The CIPP wall thickness shall be calculated from the equation in ASTM F1216, Appendix X1, based upon the parameters given in this Detailed Specification. The minimum CIPP wall thickness shall be not less than the value calculated by that equation. Any layers of tube that are not saturated with resin and capable of being cured shall not be deemed to have been included in the calculated CIPP wall thickness.

The tube shall be fabricated to a size and length that when installed will fit sufficiently tight within the existing pipe so as to not leak at manholes, at service connections, or through the wall of the installed pipe. The tube shall be properly sized to the diameter of the existing pipe and the length to be rehabilitated and be able to stretch to fit irregular pipe sections and negotiate bends. The Contractor shall determine the minimum tube length necessary to effectively span the designated run between manholes. The Contractor shall verify the lengths in the field prior to impregnation of the tube with resin, to ensure that the tube will have sufficient length to extend the entire length of the run. The Contractor shall also measure the inside diameter of the existing pipelines in the field prior to ordering liner so the liner can be installed in a tight-fitted condition. Allowance for circumferential stretching of the tube during insertion shall be made as per manufacturer's recommendations. Overlapped layers of felt in the longitudinal seam that cause lumps in the final product shall not be utilized

The tube shall be homogeneous across the entire wall thickness containing no intermediate or encapsulated elastomeric layers. No material shall be included in the tube that may cause delamination in the cured CIPP. No dry or unsaturated layers shall be evident.

The wall color of the interior pipe surface of the CIPP after installation shall be a light reflective color so that a clear detail examination with closed circuit television inspection equipment may be made. The hue shall be dark enough to distinguish a contrast between the fully resin saturated felt fabric and dry or resin lean areas.

Seams in the tube shall be stronger than the unseamed felt and shall meet the requirements of ASTM D5813. Where the length of the tube to be installed requires joining along the circumference of the tube, the sewn joint shall not be perpendicular to the long axis but spirally formed and sewn.

The outside of the tube shall be marked for distance at regular intervals along its entire length, not to exceed 5 feet. Such markings shall include the manufacturers name or identifying symbol. The tubes must be manufactured in the USA.

The length of the tube shall be that deemed necessary by the Contractor to effectively carry out the insertion and seal the pipe at the inlet and outlet points, plus that amount required to run-in and run-out for the

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installation process. The Contractor shall verify the lengths in the field before cutting the tube to length. Lengths of sewer shall be lined over one or more access points as shown on the Drawings.

Resin.- Resin shall be a polyester, enhanced polyester, vinyl ester, or epoxy system including all required catalysts, initiators, or hardeners that when cured within the tube creates a composite that satisfies the requirements of ASTM F1216 and ASTM F1743, the physical properties herein, and those which are to be utilized in the design of the CIPP for this project. Resin selected shall be resistant to the chemical composition of the sewage and comply with the structural requirements of this specification.

Resin selected shall be Styrene-Free.

The resin shall be thermosetting resin that is compatible with the lining process and shall meet the requirements of ASTM F1216 except as otherwise specified in this Detailed Specification. The resin shall be able to cure in water with an initiation temperature for cure as required by the liner manufacturer, but not greater than maximum temperatures required under ASTM F1216. The cured resin/felt system shall be suitable for the expected conditions within the existing sanitary sewer.

The Contractor is responsible for choosing a resin system that is capable of meeting the physical and cured-in-place properties and performance requirements as detailed in this specification.

Field Cured Line.- The completed liner as installed and fully cured-in-place shall meet the minimum physical properties for short term flexural modulus and flexural strength as shown in Table 1.

Remote Temperature Sensing Devices-. Fiber optic probes shall be installed to monitor the average temperature along the entire length of the tube as it cures. Devices shall be provided by VeriCure or an Engineer-approved equal.

CONSTRUCTION METHODS

The Contractor shall carry out their operations in strict accordance with all Occupational Safety and Health Administration (OSHA), Michigan Occupational Safety and Health Administration (MIOSHA), and manufacturer's safety requirements. The Contractor shall be solely responsible for safety during the performance of all work. The Contractor shall not enter into any sewer segment where hazardous conditions may exist until such time as the source of those conditions is identified and eliminated by the Contractor and/or the City. The Contractor shall coordinate their work with local fire, police, and emergency rescue unit.

The Contractor shall be responsible for any damage to public or private property resulting from their sewer lining or televising activities and shall repair or otherwise make whole such damage at no cost to the City.

Bypassing Flow – The Contractor shall provide un-interrupted sewerage service at all in accordance to the Detailed specification for Sewer Flow Control.

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Cleaning of Pipelines.- Prior to rehabilitation of any sewer, it shall be the responsibility of the Contractor to remove all internal deposits from the pipeline. Each sewer section shall be cleaned to a degree sufficient to allow video inspection and cured-in-place pipe (CIPP) lining to be completed in accordance with this specification. The Contractor shall take precautions to protect the sewer lines from damage. The Contractor shall assume the sewer will require heavy cleaning with unlimited passes to achieve a clean sewer and that rodding and root cutting shall be required and are included in the contract pay item.

The Contractor must adhere to the requirements of ASTM F1216 or ASTM F1606 for the following types of cleaning: hydraulic cleaning, high velocity hydro-cleaning, and mechanical cleaning.

Remove dirt, grease, rocks, sand, roots, and other solid or semisolid materials and obstructions from the sewer line and manholes. Cleaning shall be of the entire reach between manholes and/or chambers.

It shall be the responsibility of the Contractor to clear the line of obstructions such as solids, dropped joints, debris from collapsed pipe, sediment deposits, mineral deposits, stalactites, and all major blockages that would prevent sewer rehabilitation work to be performed at no additional cost to the project.

The sewers shall be cleaned by using a high pressure water cleaning machine with minimum capability of 5,000 pounds per square inch (psi) at 80 gallons per minute (gpm). A high pressure hose with a jet nozzle shall be introduced into the sewer so that a spray shall scour and clean the sewer line without applying internal pressure and damaging the pipe. This will require an unlimited amount of passes of the jet nozzle, or other cleaning measures to remove all debris. The hose shall be self-propelled by a minimum water pressure of 1,000 psi. Cleaning pressures to 5,000 psi may be required to remove heavy tuberculation and adhered debris from the pipe interior. The jet nozzle hose, upon withdrawal, will scour the pipe (invert, walls, and crown), flushing all materials into the downstream manhole for removal.

Material removal shall be performed at the identified-for-access manholes for the cleaning operation. At no time during cleaning shall material be allowed to enter or flow in the sewer past the downstream access manhole. Passing material from manhole section to manhole section shall not be permitted.

Waste material removed from the sanitary sewer system shall be disposed of by the Contractor at his expense.

Mechanical root cutting shall be performed with powered equipment. The Contractor shall furnish suitable power machinery which shall be used to remove tree roots and deposits remaining after jet cleaning that prevent passage of television inspection equipment or prevent the lining of the sewer.

Sewer Television Inspection.- The initial “pre-rehabilitation” television inspection of the sewers pipes shall be conducted within a week of the cleaning of each segment as long as the flow diversion and lateral bypass pumping system has remained in operation. Should the flow diversion have been temporarily suspended between the cleaning and the televising, or between the initial televising and the lining, then both the cleaning and televising shall be repeated at no additional cost to the project. The Contractor shall provide digital video on DVD, flash drive, or hard drive that verify that the sewer is clean and free of sediment and debris to the satisfaction of the Engineer. If any sewer is not satisfactorily cleaned, it shall be

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promptly cleaned and re-inspected by closed-circuit television camera and video provided to the Engineer for review and approval.

The camera must be operative in 100% relative humidity conditions. The live image obtained by the camera shall be transmitted to a color monitor of not less than 19 inches. The camera and monitor shall have a minimum 500 line resolution. The monitor shall be located inside the mobile recording studio.

Lighting for the camera shall be adequate to allow a clear picture of the entire periphery of the sewer and shall be varied as required to be effective for all pipe diameters inspected. Remote control of lighting brilliance, camera focus, and camera movement shall be from a control panel inside the mobile recording studio. Cables and equipment used to propel the camera shall not obstruct the camera view or interfere with the documentation of the sewer conditions.

The camera shall be moved through the sewer line at a uniform rate, maximum 30 feet per minute. Whenever possible, the camera shall move in an upstream direction. The camera shall be stopped for no less than 10 seconds at the manhole entrances, each service lateral, exit manholes, and at all points where the sewer is damaged or deficient. The camera shall pan and tilt to provide full view of each service lateral, and at all points where the sewer is damaged or deficient.

If the camera fails to pass through a pipe section, the Contractor shall re-set the equipment and attempt to perform the inspection coming back from the next upstream, identified-for-access, and manhole. If the inspection cannot be completed from the next manhole, the inspection shall be considered complete and the Engineer will provide written instructions to the Contractor describing how to proceed with the work in that reach of sewer.

Line Obstructions/Repairs.- It shall be the responsibility of the Contractor to clear the line of obstructions such as solids, dropped joints, protruding branch connections or broken pipe that will prevent proper insertion of the liner. If the pre-design video inspection reveals an obstruction that cannot be removed by conventional cleaning equipment, then the obstruction shall be removed by equipment operating within the pipeline.

Services which protrude more than 3/4 inch into the sewer lines shall be ground down as flush as possible with the wall of the sanitary sewer. Grinding shall be done with equipment operating inside of the sewer and shall not cause damage to the sewer or the service being ground.

If the protruding service is in such condition that grinding is not possible or if the condition of the sewer is such that repairs cannot be performed from inside the sewer then the Contractor shall make a spot repair excavation, to uncover and remove or repair the obstruction. Such excavation shall be approved in writing by the Engineer prior to the commencement of the work.

If the pre-design video inspection reveals areas that require excavation, removal, spot repair, or grinding, then these excavations, removals, spot repairs, and grinding shall be included in the Contractor's bid. Such excavations, removals, spot repairs, and grinding shall only be paid for separately when the condition of the sanitary sewer has deteriorated to the point of making an excavation, removal, repair, and grinding necessary, since the pre-design video inspection.

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Pre-Rehabilitation Inspection of Pipelines.- Inspection of pipelines shall be performed after the pipe has been cleaned, by experienced personnel trained in locating breaks, obstacles, and service connections by closed circuit television.

The interior of the pipeline shall be carefully inspected to determine the location and extent of any structural failures. The location of any conditions which may prevent proper installation of lining materials into the pipelines shall be noted so these conditions can be corrected as specified in this Detailed Specification and Detailed Specification "Cleaning and Televising Sewer, Manholes, and Chambers".

Installation of Resin Impregnated Tube.- The Contractor shall designate a location where the uncured resin in the original containers and the unimpregnated liner will be resin impregnated prior to installation. The Contractor shall allow the Engineer to inspect the materials and procedure. A resin and catalyst system compatible with the requirements of this Detailed Specification shall be used. The quantities of the liquid thermosetting materials shall be provided in accordance with manufacturer's standards to provide the cured liner properties specified. Sufficient resin shall be used to fill the volume of air voids in the liner with additional allowance for polymerization, shrinkage, and loss of resin through cracks and irregularities in host pipe wall. The Contractor shall ensure the proper amount of resin is uniformly distributed throughout the entire length of the tube.

The wetting out, installation, and curing of the resin impregnated tube shall be in accordance with ASTM F1216 and per manufacturer's specifications. The tube shall be inserted through existing opening by means of an inversion process, the application of a hydrostatic head sufficient to fully extend the liner to the next designated access point, or other means as approved by the Engineer.

The process will be adjusted as necessary to ensure a complete lining without over-stressing or tearing the lining, with sufficient pressure to hold the liner snug to the pipe wall, and to produce dimples at side

connections and flared ends at the entrance and exit access points. The use of a lubricant is recommended and if used, such lubricant shall be compatible with the rehabilitation process.

The manufacturer's standards shall be closely followed during the elevated curing temperature so as not to over-stress the felt fiber and cause damage or failure of the liner prior to cure.

Curing.- Hot water or steam is required for full length liners. After installation of the resin impregnated liner is completed, the Contractor shall supply a suitable heat source and water / steam recirculation equipment as necessary to cure the liner. For water curing the equipment shall be capable of delivering hot water to the far end of the liner through a hose, which has been perforated per manufacturer's recommendations, to uniformly raise the water temperature in the entire pipe above the temperature required to affect a cure of the resin. This temperature shall be determined by the resin/catalyst system employed.

For quality control during the CIPP lining operation, the Contractor shall utilize remote temperature sensing devices placed between the host pipe and the liner to continuously monitor the liner cure incrementally every 18 inches or less to verify that an exothermic reaction has occurred and that a full cure has taken place along the full length of the CIPP liner. Measuring temperatures at the liner endpoints only will not be permitted. The cure information must be taken from the bottom third of the pipe liner. Cure parameter information shall be provided by the resin manufacturer.

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Liner and/or host pipe interface temperature shall be monitored and logged during curing of the liner. The monitoring system must have the ability to be remotely viewed live by the Engineer. Data collected shall

be provided to the Engineer in Excel spreadsheet and graphical viewer formats at the same time as the post-lining inspection videos are provided.

Initial cure shall be deemed to be completed when the remote sensing devices reflect that the cure temperature, as recommended by the resin/catalyst system manufacturer, have been achieved. The cure period shall be of a duration recommended by the resin manufacturer, as modified for site-specific conditions, during which time the recirculation of the water and cycling of the heat exchanger to maintain the temperature in the liner continues.

Cool-Down.-The Contractor shall cool the CIPP in accordance with the CIPP manufacturer's recommendations, to a temperature below 100°F before relieving the static head in the liner. Temperatures and curing data shall be monitored and recorded by the Contractor throughout the installation process to ensure that each phase of the process is achieved in accordance with the CIPP manufacturer's recommendations. Cool-down may be accomplished by the introduction of cool water into the liner to replace water being drained from the downstream end. Care shall be taken in the release of the static head such that a vacuum will not be developed that could damage the newly installed liner. The cooled water shall be released to the existing sanitary sewer at a rate that is approved by the Engineer and the City of Ann Arbor's Waste Water Treatment Plant (WWTP) superintendent.

Finish.- The cured liner shall be continuous over the entire length of an insertion run and be as free as commercially practicable from visual defects such as foreign inclusions, dry spots, pinholes, and delamination. The lining shall be impervious and free of any leakage.

Any defects which will affect the integrity of the liner, or any deficiencies in required strengths or thicknesses, shall be repaired or removed and replaced at the Contractor's expense, in a manner acceptable to the Engineer.

Sealing Liner at the Ends.- A seal, consisting of a hydrophilic sealing gasket compatible with the installed CIPP, shall be installed at each manhole/pipe wall interface. The seal shall be a seamless molded tubular design that swells in the presence of water. The seal shall be secured in place by a retaining ring.

Branch or Service Connections
After the liner has been cured, the Contractor shall reconnect the existing service connections. This shall generally be done without excavation and in the case of non-man entry pipes, from the interior of the pipeline by means of a television camera and a cutting device that re-establishes them to operational capacity.
Reconnection of services shall begin immediately after curing of the CIPP has been completed. No service shall be interrupted for more than 12 hours unless otherwise approved by the Engineer.

Post-Rehabilitation Television Inspection.- The completed sewer shall be television inspected and color videotaped, by the Contractor, in accordance with Detailed Specification "Cleaning and Televising Sewer and Manholes" No payment shall be provided for post rehabilitation television inspection.

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Acceptance Tests.- The Engineer shall perform Acceptance Testing in accordance with ASTM F1216 (including appendices) and ASTM D5813.

The Contractor shall prepare plate test samples to be cured with the CIPP operation. The Contractor shall capture and prepare sample specimens of the liner for the Acceptance Testing to be performed by the Engineer for each section of sewer lined in accordance with Section 8 of ASTM F1216 for testing flexural strength and delamination. The Contractor shall prepare the samples for shipment to the laboratory, including cutting samples to proper length and width as described in the applicable ASTM test procedures. Samples shall be labeled for date, diameter, section of sewer, and delivered to the Engineer for testing. The cost of the sample postage, shipping, and testing will be paid for by the City. When tested, each sample shall meet the physical properties for flexural modulus and flexural strength used in the design calculations.

Air testing on isolated sections of sewer (minimum of 2 to 3 feet in length) shall be required if post-rehabilitation inspection indicates leaks in the liner. Air testing shall be performed on longer sections or multiple sections of sewer as required to identify the location(s) and full extent of defects. Such testing shall be performed by the Contractor at no additional expense to the project.

CIPP wall thickness shall be verified in accordance with Section 8.6 of ASTM F1216 and using test methods consistent with Section 8.1.2 of ASTM D5813.

Should the test results indicate that the liner fails to meet the required physical properties as specified herein, the work shall be rejected. The Contractor shall remove and replace or repair any defects in the installed liner to the satisfaction of the Engineer at no additional cost to the project. Contract time will continue during the period of time from the receipt of failing test results to the completion of the repairs.

Clean-Up.- Upon completion of the installation work and after required testing indicates the linings are acceptable, the Contractor shall restore the project area affected by their operation in accordance with Detailed Specification “Project Clean-Up and Restoration, Special.”

Traffic Control.- During the entire rehabilitation process, the Contractor shall provide all necessary barricades, signs, traffic regulators (flaggers), minor traffic devices, etc., to maintain both vehicular and pedestrian traffic in accordance with the Michigan Manual of Uniform Traffic Control Devices, as shown on the Drawings, and in accordance with Detailed Specification “Maintenance of Traffic.”

Warranty.- The materials used for the project shall be certified by the manufacturer for the specified purpose. The Contractor shall warrant the liner material and installation for a period of 2 years. During the Contractor warranty period, any defect which may materially affect the integrity, strength, function, and/or operation of the pipe, shall be repaired at the Contractor’s expense in accordance with procedures described in this Detailed Specification, Section d.15, “Liner Repair/Replacement,” and as recommended by the manufacturer.

The Contractor shall conduct warranty CCTV inspection of sewers which were lined. This work shall be completed at the Contractor’s expense, no sooner than 2 months prior to the expiration of the original warranty period. The televising shall be performed in the presence of the Engineer. Television inspection that is not performed within the presence of the Engineer will not be accepted and shall be performed again at the Contractor’s sole expense. Any areas that do not meet the requirements of this Detailed Specification will be repaired or re-lined at no additional cost to the City.

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MEASUREMENT AND PAYMENT

The completed work as measured for this item of work will be paid for at the contract unit price for the following contract item:

Pay Item	Pay Unit
____ inch Diameter CIPP Sewer Lining	Lineal Foot

Rehabilitation of sanitary sewer will be paid for at the contract unit price per lineal foot. The contract unit price paid shall be payment in full for all labor, material, and equipment required for rehabilitation of existing sanitary sewers by insertion of a CIPP liner and shall include, but is not limited to; furnishing, transporting, preparing, and installing the structural pipe liner and CIPP end seals; furnishing and installing remote temperature sensing devices used during the liner curing process; reconnecting existing sewers or leads; performing any needed liner repairs; gaining access to work site; removal and replacement of site improvements; post-lining sewer televising; all required warranty work; and all other work and items necessary to complete the work as detailed within this Detailed Specification.

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DETAILED SPECIFICATION
FOR
ITEM #224 - REMOVE CONCRETE CURB OR CURB & GUTTER – ANY TYPE, MODIFIED
ITEM #225 - REMOVE CONCRETE SIDEWALK, RAMP AND DRIVES – ANY THICKNESS, MODIFIED

DESCRIPTION

This work shall consist of removing concrete curb, gutter, curb and gutter, integral curb, concrete pavement, sidewalk, sidewalk ramps, drive openings, and drive approach pavements as shown on the plans, as detailed in the Specifications, and as directed by the Engineer, in accordance with Section 204 of the Michigan Department of Transportation (MDOT) 2012 Standard Specifications for Construction, except as specified herein, and as directed by the Engineer.

CONSTRUCTION METHODS

Curb, gutter, curb and gutter, sidewalk, sidewalk ramps, drive openings, and drives shall be replaced within 24 hours of their removal.

The Contractor shall remove concrete curb, gutter, curb & gutter, integral curb, pavement, sidewalk, sidewalk ramps, drive openings, and drives, all regardless of the type and thickness, and all as shown on the Plans, as detailed in the Specifications, and as directed by the Engineer.

Prior to the start of removals, the Engineer and Contractor together shall field measure all removals. The Engineer shall approve of all removal limits prior to any removals being performed by the Contractor.

The Contractor shall perform full-depth saw cutting at removal limits, including those necessary to construct 2-foot wide MDOT Type M drive openings, and including those necessary to provide for the partial removal of existing drive approaches as shown on the Plans, as directed by the Engineer, and as marked for removal. The Contractor shall cut steel reinforcement bars as directed by the Engineer at all areas of removal. All saw cutting shall be performed under wet conditions to prevent excessive airborne dust. All resulting slurry and debris shall be cleaned up the satisfaction of the Engineer.

The Contractor shall remove, salvage, and deliver to any location within the City limits, or to any City-owned property, and neatly stack/stockpile all bricks, if present, as directed by the Engineer.

The Contractor shall excavate, cut, remove stumps, remove brush, grade, and trim as needed and as directed, and shall import, furnish, fill, place, grade, and compact granular material as needed to: construct new concrete items; to repair or replace existing concrete items; to relocate existing concrete items to their new specified/directed elevations/locations, including all necessary grading at elevation changes of curb and gutter, sidewalks and ramps; and at locations where existing concrete items are to be removed and turf is to be established in its place.

The Contractor shall coordinate with the City Forester prior to the removal of any tree roots.

At various times throughout the work, the Engineer may direct the Contractor to use smaller and/or lighter equipment, and to defer certain work tasks, in order to protect the grade and/or adjacent areas. The Contractor shall not be entitled to any additional compensation for the use of smaller equipment, lighter equipment, or work task deferral.

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DETAILED SPECIFICATION
FOR
ITEM #228 - REMOVE CONCRETE CURB, GUTTER, OR CURB & GUTTER – ANY TYPE, MODIFIED
ITEM #229 - REMOVE CONCRETE SIDEWALK, RAMP AND DRIVES – ANY THICKNESS, MODIFIED

The Contractor shall re-shape, re-grade, and re-compact the existing roadbed materials to the cross-section(s) as indicated on the Plans, as detailed in the Specifications, and as directed by the Engineer.

The Contractor shall use blade graders, maintainers, vibratory rollers, and/or other equipment as necessary, and as directed by the Engineer. The use of each specific piece of equipment is subject to the approval of the Engineer.

The Engineer may direct aggregate base materials to be either removed from or added to the job-site, to properly complete the work. Where the Engineer directs the addition of such materials, they shall be paid for as either the Item of Work: "Aggregate Base". Where the Engineer directs such materials to be removed, they will not be paid for separately, but shall be included in the appropriate concrete removal item.

Concrete pavement removals shall be performed in accordance with the MDOT 2012 Standard Specifications, Section 603.03.B.1.b, Removing Pavement (Repair), except as modified herein. The item of work "Remove Concrete Pavement (Repair) - Any Thickness" refers to the removal of existing concrete pavement and concrete pavement base within the width of the street (i.e. edge-of-metal to edge-of-metal). Concrete removal outside the edge-of-metal shall be paid for as the appropriate item of either "Remove Concrete Curb or Curb & Gutter - Any Type, Modified", or "Remove Concrete Sidewalk, Ramp and Drives - Any Thickness, Modified".

Where existing concrete curb or curb & gutter is to be replaced on a street with a concrete (or brick) base, the Engineer may direct the Contractor to remove a 1-to-2-foot wide, full-depth section of pavement and pavement base from immediately in front of the curb & gutter. As part of this pavement/base removal, the Contractor shall perform additional (double) full-depth saw-cutting along the entire removal limits, and shall take sufficient care so as not to damage and/or disturb any adjacent pavement, pavement base, and/or any other site feature, all as directed by the Engineer. The removals shall be to a sufficient width and depth to allow for the placement and removal of the curb & gutter formwork. After the removal of the formwork, the Contractor shall replace the concrete base to its original thickness and elevation(s).

The Contractor shall remove composite pavement (HMA pavement overlaid on concrete/brick pavement or concrete/brick pavement base) of any thickness(es) as directed by the Engineer. This work shall be paid for as "Remove Concrete Pavement (Repair) - Any Thickness". The work of removing HMA pavement overlays where concrete/brick pavement or concrete/ brick pavement base is to be removed will not be paid for separately.

Excavated/removal areas shall be adequately protected with barricades or fencing at all times.

Removed or excavated materials which are not incorporated into the work shall become the property of the Contractor and shall be immediately removed and properly disposed of off-site. Removed or excavated materials may not be stockpiled overnight on, or adjacent to, the site.

Subbase or subgrade removed without authorization by the Engineer shall be replaced and compacted by the Contractor at the Contractor's expense, with materials specified by the Engineer.

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DETAILED SPECIFICATION
FOR
ITEM #228 - REMOVE CONCRETE CURB, GUTTER, OR CURB & GUTTER – ANY TYPE, MODIFIED
ITEM #229 - REMOVE CONCRETE SIDEWALK, RAMP AND DRIVES – ANY THICKNESS, MODIFIED

MEASUREMENT AND PAYMENT

Sidewalk ramp removal shall be measured and paid for as "Remove Concrete Sidewalk, Ramp and Drives - Any Thickness, Modified".

Integral curb and gutter that is removed as part of "Remove Concrete Pavement (Repair)" shall be measured and paid for by the square yard, along with the pavement removal quantity.

All sawcutting required for removals shall be included in the appropriate item of work, and will not be paid for separately. Payment for saw cutting to create or modify Type M openings and to allow for the partial removal of existing drives shall be included in the price of the item of work, "Remove Concrete Sidewalk, Ramp and Drives - Any Thickness, Modified", and will not be paid for separately.

Concrete removal items shall be field measured and paid for at the Contract Unit Prices for their respective Contract (Pay) Items as follows:

PAY ITEM	PAY UNIT
Remove Concrete Curb or Curb & Gutter - Any Type, Modified	Lineal Foot
Remove Concrete Sidewalk, Ramp and Drives - Any Thickness , Modified	Square Foot

The unit prices for these items of work shall include all labor, material, and equipment costs to perform all the work specified in the Standard Specifications and as modified by this Detailed Specification.

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DETAILED SPECIFICATION
FOR
ITEM #230 – AGGREGATE BASE

DESCRIPTION

This work consists constructing an aggregate base course on a surface approved by the Engineer. Work will be performed in accordance with Section 302 of the Michigan Department of Transportation (MDOT) 2012 Standard Specifications for Construction, and as directed by the Engineer.

MATERIALS

Aggregate Base material will be Dense-Graded Aggregate 21AA in accordance with that specified in Section 902 of the MDOT 2012 Standard Specifications for Construction.

CONSTRUCTION METHODS

Aggregate Base will be constructed in accordance with Section 302.03 of the MDOT 2012 Standard Specifications for Construction, and as directed by the Engineer.

MEASUREMENT AND PAYMENT

The completed work will be paid for at the contract unit price for the following contract item (pay item).

PAY ITEM	PAY UNIT
Aggregate Base	Ton

Aggregate Base will be measured by the unit ton in accordance with Section 302.04 of the MDOT 2012 Standard Specifications for Construction, and as directed by the Engineer, and will be paid for at the unit price per ton. The unit price for this contract item includes all labor, material, and equipment costs required to perform the work.

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DETAILED SPECIFICATION
FOR
ITEM #231 – HAND PATCHING

1 of 1

DESCRIPTION

This work consists of filling holes, depressions, joints, cracks, voids, and opens cut areas in HMA pavements. Work will be performed in accordance with Section 501 of the Michigan Department of Transportation (MDOT) 2012 Standard Specifications for Construction, and as directed by the Engineer.

MATERIALS

Materials will be in accordance with those specified in Section 501 of the MDOT 2012 Standard Specifications for Construction, and as directed by the Engineer.

CONSTRUCTION METHODS

Hand Patching will be constructed in accordance with Section 501 of the MDOT 2012 Standard Specifications for Construction, and as directed by the Engineer.

MEASUREMENT AND PAYMENT

The completed work will be paid for at the contract unit price for the following contract item (pay item).

PAY ITEM	PAY UNIT
Hand Patching	Ton

Hand Patching will be measured by the unit ton and will be paid for at the unit price per ton. The unit price for this contract item includes all labor, material, and equipment costs required to place the HMA, by hand or other methods, and compact the material.

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DETAILED SPECIFICATION
FOR
ITEM #232 – CONCRETE CURB OR CURB & GUTTER - ANY TYPE
ITEM #233 – 4" INCH CONCRETE SIDEWALK, MODIFIED
ITEM #234 – 6" CONCRETE SIDEWALK, RAMP OR DRIVE APPROACH, MODIFIED
ITEM #235 – 6" CONCRETE SIDEWALK, RAMP OR DRIVE APPROACH, HIGH-EARLY
ITEM #236 - CONCRETE TYPE M DRIVE OPENING, HIGH-EARLY

DESCRIPTION

This work shall consist of constructing concrete items including curb, gutter, curb and gutter, sidewalks, drive approaches, and drive openings, all of any type and/or dimensions, all of either regular, fiber mesh reinforced, and/or high-early concrete, in accordance with Sections 801, 802, and 803 of the Michigan Department of Transportation (MDOT) 2012 Standard Specifications for Construction, except as specified herein, as shown on the Plans, as described in this Detailed Specification, and as directed by the Engineer.

The Contractor is responsible to construct all sidewalks, sidewalk ramps, curbs, and all other concrete items within ADAAG compliance. All sidewalks and curb ramps must be constructed in accordance with MDOT Standard Plan R-28-H or version of standard plan/detail in place at time of the bid letting if different.

In addition, all concrete items of work shall comply with the Detailed Specifications for Concrete Durability and Concrete Placement and Protection.

MATERIALS

Concrete mixtures shall be as follows (or as directed by the Engineer), and concrete materials shall meet the requirements specified in the referenced sections of the MDOT Standard Specifications for Construction:

Item Description	Concrete Mixture	MDOT Section
Concrete Curb or Curb & Gutter – Any Type	P1, S2	601, 701
4" Concrete Sidewalk, Modified	P1, P2, S2, S3	601, 701
6" Concrete Sidewalk, Ramp, Drive Approach, Modified	P1, P2, S2, S3	601, 701
6" Concrete Sidewalk, Ramp, Drive Approach, High-Early	P-NC	601
Concrete Type M Drive Opening, High-Early	P-NC	601

CONSTRUCTION METHODS

General

Curb, gutter, curb and gutter, sidewalk, sidewalk ramps, drive openings, and drives shall be replaced the same day they are removed.

Concrete items, including sidewalk, non-integral curb/gutter, drives, and structure adjustments shall be completed prior to the placement of pavement.

All subgrade work shall be completed prior to placing concrete items, unless directed or approved by the Engineer.

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The subbase shall be trimmed to final elevation before placing curb. Curb shall not be placed on a pedestal or mound.

The Contractor shall excavate, cut, remove stumps, remove brush, remove pavement, grade, and trim as needed and as directed, and shall import, furnish, fill, place, grade, and compact Class II granular material and 21AA Aggregate material as needed to: construct new concrete items; to repair or replace existing concrete items; to relocate existing concrete items to their new specified/directed elevations/locations, including all necessary grading at elevation changes of curb and gutter, sidewalks and ramps; and at locations where existing concrete items are to be removed and turf is to be established in its place.

At locations where the subgrade, subbase or base becomes either disturbed, saturated or otherwise damaged, and where directed by the Engineer, the Contractor shall remove a minimum 6-inch thick layer of the subgrade, subbase or base, and replace it with approved 21AA Aggregate material, compacted in place.

The Contractor shall coordinate with the City Forester prior to the removal of any tree roots.

The Contractor is responsible for any damage to concrete items, including but not limited to vandalism; vehicular, pedestrian and/or miscellaneous structural damage; surface texture damage; and rain damage.

The Contractor shall maintain on-site at all times, a sufficient quantity of adequate materials to protect concrete items. The Engineer may suspend or defer concrete placement if rain protection is not available. The Contractor shall not be entitled to any additional compensation due to work suspension or deferral resulting from a lack of adequate rain protection.

The Contractor shall perform full-depth saw cutting at removal limits, including those necessary to construct 2-foot wide Type M drive openings, and including those necessary to provide for the partial removal of existing drive approaches, as shown on the Plans, as directed by the Engineer, and as marked for removal.

The subbase and adjacent concrete shall be sufficiently wet-down with water prior to placing concrete, to prevent water loss from the new concrete, and to form a better bond between old and new concrete. If a cold-joint becomes necessary, the existing concrete surface(s) shall be cleaned with compressed air to expose the aggregate in the concrete.

Where it is necessary to remove existing pavement to provide space for concrete formwork, a sufficient amount of the existing pavement shall be removed to allow for the use of a vibratory plate compactor in front of the curb.

Where concrete items are placed in areas adjacent to existing pavement that is beyond the general resurfacing (pavement removal and/or milling) limits, the adjacent pavement area shall be backfilled and permanently patched within 48-hours of the removal of concrete formwork. The backfill material shall be

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MDOT 21AA aggregate compacted in place to 95%, up to the elevation of the proposed bottom of pavement. The pavement patching material(s) shall be as specified and as directed by the Engineer.

Where concrete items are placed adjacent to existing pavement that is within areas scheduled for subsequent pavement removal and/or milling, the adjacent pavement area shall, within 48-hours of the removal of concrete formwork, be backfilled with MDOT 21AA aggregate compacted in place to 95% up to the elevation of the bottom of the adjacent pavement.

Prior to compacting backfill in front of curb and gutter, the back of curb shall be backfilled with approved material and compacted by mechanical means to 95%.

At various times throughout the work, the Engineer may direct the Contractor to use smaller and/or lighter equipment, and to defer certain work tasks, in order to protect the grade and/or adjacent areas. The Contractor shall not be entitled to any additional compensation for the use of smaller equipment, lighter equipment, or work task deferral.

Restoration
The Contractor shall restore all disturbed areas to better than or equal to their original condition within two calendar days from the date of concrete placement. This includes the placement and compaction of 2.5 inches of topsoil, followed by the placement of grass seed, followed by the placement of 0.5 inches of topsoil, at all turf restoration locations, and at locations where concrete items are removed and turf is to be established. Restoration shall also include the replacement of any brickwork, decorative stone, or other adjacent materials. All restoration work and materials shall be in accordance with the City of Ann Arbor Standard Specifications for Construction.

Contraction Joints in Sidewalk
Contraction joints shall be placed at 5-foot intervals and may be tooled or sawed. The method of forming joints and spacing shall be approved by the Engineer prior to construction.

Expansion Joints in Sidewalks
¾-inch wide expansion joints shall be placed through concrete sidewalks in line with the extension of all property lines, at all expansion joints in the abutting curb, gutter, and combination curb and gutter, and as directed by the Engineer. Transverse expansion joints shall be placed through the sidewalks at uniform intervals of not more than 300-feet.

½-inch wide expansion joints shall be placed between the sidewalk and back of abutting curb or gutter, at the juncture of two sidewalks, between the sidewalk and buildings and other rigid structures, and as directed by the Engineer.

Expansion Joints in Curb and Gutter
¾-inch wide expansion joints shall be placed at all street returns, at all expansion joints in an abutting pavement, at each side of all driveways (at radius points), elsewhere at 300-foot maximum intervals, and as directed by the Engineer.

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Expansion joint material shall extend to the full depth of the joint. After installation, the top shall not be above the concrete nor be more than ½-inch below it. No reinforcing steel shall extend through expansion joints.

Plane of Weakness Joints in Curb and Gutter
Intermediate plane of weakness joints shall be placed to divide the structure into uniform sections, normally 10-feet in length, with a minimum being 8-feet in length, and shall be placed opposite all plane of weakness joints in the abutting concrete base course.

Plane of weakness joints shall be formed by narrow divider plates, which shall extend 3-inches into the exposed surfaces of the curb or curb and gutter. Plates shall be notched, if necessary, to permit the steel reinforcement to be continuous through the joint.

MEASUREMENT AND PAYMENT

The work of furnishing and installing mechanical anchors and hook bolts will be measured and paid for by the number of hook bolts installed.

All concrete pavement repair, including that which is installed with integral curb and gutter, will be measured and paid for by the area actually placed in square yards (SY).

No additional compensation will be paid for the construction of concrete items adjacent to existing concrete curb, gutter, pavement, or any other pavement or surface feature(s).

No additional compensation will be paid for the removal of a 6-inch thick layer of the subgrade, subbase or base, and replacement with approved 21AA aggregate material, compacted in place.

A deduction in length for catch basins and inlet castings will be made to measurements of Curb and Gutter.

Curb, gutter, and curb and gutter shall be paid as "Concrete Curb or Curb & Gutter – Any Type, Modified".

Restoration work, including backfilling, compacting, HMA patching adjacent to concrete items, topsoiling and seeding will not be paid for separately, but shall be included in the appropriate associated items of work.

Payment for saw cutting for Type M openings and for partial removal of existing drives shall be included in the price for the item of work, "Remove Concrete Sidewalk, Ramp and Drives - Any Thickness, Modified", and will not be paid for separately.

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DETAILED SPECIFICATION
FOR
ITEM #232 – CONCRETE CURB OR CURB & GUTTER - ANY TYPE
ITEM #233 – 4" INCH CONCRETE SIDEWALK, MODIFIED
ITEM #234 – 6" CONCRETE SIDEWALK, RAMP OR DRIVE APPROACH, MODIFIED
ITEM #235 – 6" CONCRETE SIDEWALK, RAMP OR DRIVE APPROACH, HIGH-EARLY
ITEM #236 - CONCRETE TYPE M DRIVE OPENING, HIGH-EARLY

Payment for the removal of HMA pavement and aggregate base to provide space for concrete formwork and vibratory plate compactor shall be included in the price for the item of work, "Remove Concrete Curb or Curb and Gutter - Any Type, Modified", and will not be paid for separately.

Completed work as measured for these items of work will be paid for at Contract Unit Prices for the following Contract (Pay) Items:

PAY ITEMS	**PAY UNIT**
Concrete Curb or Curb & Gutter – Any Type	Lineal Foot
4" Concrete Sidewalk, Modified	Square Foot
6" Concrete Sidewalk, Ramp, Drive Approach, Modified	Square Foot
6" Concrete Sidewalk, Ramp, Drive Approach, High Early	Square Foot
Concrete Type M Drive Opening, High Early	Lineal Foot

The unit prices for these items of work shall include all labor, material, and equipment costs to perform all the work specified in the Standard Specifications and as modified by this Detailed Specification.

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DETAILED SPECIFICATION
FOR
ITEM #237 – INLET FILTER, SPECIAL

DESCRIPTION

This work shall consist of properly installing curb and gutter inlet filters, at locations indicated on the plans, and as directed by the Engineer, maintaining during the entire construction period, and removing at the end of construction. The curb and gutter inlet filters shall be constructed in accordance with the detailed plans.

MEASUREMENT AND PAYMENT

The unit price for this item of work shall include all labor, material, and equipment costs to perform all the work specified in the Standard Specifications, the project plans and as modified by this Detailed Specification.

Curb and gutter inlet filters will be paid for by the unit "Each". A filter will be paid for when initially installed at a particular structure. Payment will be for installing, maintaining, reinstalling, and, removing the filter at the end of construction and as directed by the Engineer.

PAY ITEM	PAY UNIT
Inlet Filter, Special	Each

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DETAILED SPECIFICATION
FOR
CLEANING AND TELEVISING MANHOLES

DESCRIPTION

This work shall consist of the cleaning and video inspection of manholes, and providing the required documentation as described herein. All work shall be performed in accordance with the City of Ann Arbor (City) Standard Specifications, except as modified herein, and as directed by the Engineer.

The Contractor is responsible for inspecting all manholes and chambers as indicated on the Drawings in accordance with NASSCO Manhole Assessment and Certification Program (MACP) Level 2 requirements.

SUBMITTALS

The cleaning and televising plan shall be submitted to the Engineer for review and approval in accordance with Section 104.02 of the 2012 edition of the Michigan Department of Transportation Standard Specifications for Construction. No work shall begin until all provisions and requirements have been reviewed and accepted by the Engineer.

CONSTRUCTION

The Contractor shall carry out their operations in strict accordance with all Occupational Safety and Health Administration (OSHA), Michigan Occupational Safety and Health Administration (MIOSHA), and manufacturer's safety requirements.

Safety. – The Contractor shall be solely responsible for safety of all those involved with the work during the performance of all work. The Contractor shall not enter into any sewer segment where hazardous conditions may exist until such time as the source of those conditions is identified and eliminated by the Contractor. The Contractor shall perform all work in accordance with the latest OSHA confined space entry regulations. The Contractor shall coordinate their work with local fire, police, and emergency rescue unit.

The Contractor shall be responsible for any damage to public or private property resulting from their televising and cleaning activities and shall repair or otherwise make whole such damage at no cost to City and owner of the property.

Manhole and Chamber Cleaning.- All sanitary manholes shall be cleaned to a degree sufficient to perform the Level 2 MACP manhole inspection and as acceptable to the Engineer. The manhole structures shall be cleaned below their invert elevations with a power vacuum, or other Engineer-approved method, to remove all sediment to allow for the inspection of the bottom of the structures.

The Contractor shall assume the manholes require heavy cleaning with multiple passes to achieve a clean manhole. Manhole cleaning shall be incidental to the sewer cleaning and no additional payment shall be provided.

Manhole Inspection.- All sanitary manholes shall be Level 2 MACP inspected. The Level 2 MACP inspections shall gather detailed information to fully document all defects, determine condition of the manhole, and provide specific information needed to recommend corrective action. Level 2 MACP inspection shall use the established defect coding system found in the PACP to the extent possible.

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Documentation.- The Contractor shall use the City's manhole numbering system on all project documentation. The City will provide the Contractor with utility maps or Drawings showing the manhole numbers.

The Contractor shall provide color photographs of all problem areas.

A color DVD and suitable log with voice and/or computer generated description for both pre- and post-rehabilitation inspection shall be made by the Contractor and kept for later reference by the Engineer.

The Contractor shall supply the Engineer with two electronic copies of the entire and final televised program, including PACP database, MACP database, video pipe recordings, reports on two separate flash drives or portable hard drives.

MEASUREMENT AND PAYMENT

The completed work shall be paid for at the contract unit price for the following contract pay item:

PAY ITEM	PAY UNIT
Level 2 MACP Inspect Manhole……	Each

The unit prices for these items of work shall include all labor, material, and equipment costs to perform all the work specified herein.

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DETAILED SPECIFICATION
FOR
ITEM # 239 – INTERNAL CHIMNEY SEAL

DESCRIPTION

This specification includes the materials and procedures required for the internal sealing of the frame-chimney joint area of brick, block and precast manholes, as required in the contract documents.

A plural component, urethane internal manhole frame-chimney sealant, as specified herein shall be applied in all assigned manholes within the areas included in this project. If excavation is required to repair, rebuild, or replace a manhole; or if manhole linings or coatings are required, the sealant shall be applied after that work has been completed.

Design Requirements – The manhole frame-chimney sealant shall be designed to prevent leakage of water through the above-described portions of the manhole throughout its design life.
The manhole frame-chimney sealant shall remain flexible and bonded to the inside surfaces of the manhole frame and masonry throughout its design life.

MATERIALS

Manhole frame-chimney sealant consisting Cretex Easy Seal SG or engineer approved equal of a plural component, spray applied, quick setting urethane material conforming to the following requirements:

Viscosity

a. Part A, 12,000-17,000 cps @ 25C, 20 RPM per ASTM D2393
b. Part B, 300-510 cps @ 25C, 300 RPM per ASTM D4287

Weight

a. Weight/Gallon Part A, 8.90-9.20 lb/gal per ASTM D1875
b. Weight/Gallon Part B, 9.60-9.75 lb/gal per ASTM D1875
c. Weight/Gallon Mixed, 9.25-9.48 lb/gal per ASTM D1875

Processing

a. Mix Ratio By Weight, 100:107
b. Mix Ratio by Volume, 100:100
c. Cure Schedule, Hours, 4-5 hours @ 25C

Gel Time

Gel Time, Seconds, 0-15 seconds @ 25C, 100 grams per ASTM D3056

Cured Properties

a. Hardness, Shore A, 95-100 per ASTM D2240
b. Elongation, 379-473% per ASTM D638 or ASTM D412
c. Tensile Strength, 2616-3216 psi per ASTM D638 or ASTM D412
d. Peel Strength, 30.8-46.8 PLI (AL to AL) PER ASTM D1876

CONSTRUCTION METHOD

All concrete and masonry surfaces must be clean. Grease, organic matter, roots must be completely removed.

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DETAILED SPECIFICATION
FOR
ITEM # 239 – INTERNAL CHIMNEY SEAL

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The CONTRACTOR shall have the manufacturer's recommended plural cartridge dispensing tool and all other equipment/tools necessary to prepare the surfaces of the manhole and apply the manhole frame-chimney sealant.

All loose and protruding mortar and brick that would prevent proper application of the Seal, shall be removed and the appropriate areas of the manhole frame, chimney and or cone/corbel cleaned and prepared. All areas to be sealed shall be free of surface contaminates, be dry and free of any excessive voids or defects. If an adequate sealing surface does not exist on the masonry, repair materials such as Cementitious grout shall be used to fill voids and profile the chimney area of the manhole.

“CEMENTITIOUS GROUT Cementitious grout shall be a premixed, non metallic, high strength, non-shrink grout which meets the requirements of ASTM C-191 and C-827 as well as CRD-C-588 and C-621. When mixed to a mortar or "plastic" consistency, it shall have minimum one day and 28 day compressive strength of 6,000 and 9,000 psi, respectively.”

All surface preparation shall be completed in strict accordance with the frame-chimney sealant manufacturer's published instructions.

The internal frame-chimney sealant shall be applied to cover 24 vertical inches inside of the entire circumference of the chimney at a minimum thickness of one hundred (100) mils.

MEASUREMENT AND PAYMENT

This item shall be paid at the unit price bid per manhole and shall include the cost of furnishing and applying the frame-chimney sealant material along with the surface preparation work needed to facilitate proper application.

The completed work as measured for these items of work will be paid for at the Contract Unit Prices for the following Contract (Pay) Items:

PAY ITEM	PAY UNIT
Internal Chimney Seal	Ea.

The unit prices for these items of work shall include all labor, material, and equipment costs to perform all the work specified in the Standard Specifications and as modified by this Detailed Specificatio

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DETAILED SPECIFICATION
FOR
ITEM # 240 – RECONSTRUCT FLOW CHANNEL

DESCRIPTION

This work shall consist of reconstructing flow channel in accordance to what was described in Section 403 of the Michigan Department of Transportation 2012 Standard Specifications for Construction, and as specified herein.

MATERIALS

Manhole bases and flow channel shall be formed of QUIKRETE Fast Setting

Concrete Mix PRODUCT NO.1004-50 or Engineer approved equal. The use of PVC SDR-26 to establish and form the flow channel if and when applicable upon Engineer approval.

METHODS OF CONSTRUCTION

All concrete and masonry surfaces must be clean. Grease, organic matter, loose bricks, mortar, unsound concrete, roots and other materials must be completely removed.

Thoroughly clean existing flow channel and remove any accumulated sediment, debris, and broken or loose concrete. Properly dispose of all materials removed from the flow channel.

Where the process requires interruption of flow, the Contractor shall provide all necessary diversion or bypass pumping equipment to handle the flow for the duration of the flow channel rehabilitation, including curing times where applicable.

Form and place the concrete mix, meeting City of Ann Arbor Materials Standards, to create new flow channel up to the springline of the flow channel.
Install concrete flow channel up to springline of pipe with ¾” to 1” gap at pipe ends provided to maintain joint flexibility.

Changes in direction of the sewer and entering branch or branches shall be laid out in smooth curves of the longest possible radius which is targeted to the centerlines of adjoining pipelines. Regardless of differences in entrance and exit elevations, flow channels for all pipes are to be formed to present a smooth transition of flow and shall be subject to the approval of the ENGINEER.

Flow channels for sewer structures shall be finished in accordance with the city details. All flow channels shall be screeded and floated to a smooth, uniform surface and troweled to a hard surface finish.
The flow channel and surface surrounding it, shall be reformed and finished to provide flow channels. All such work shall be done with the proper tools and by careful workmen competent to do such work.

All necessary adjustments required to accommodate encountered field conditions for reconstructed

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flow channel including all necessary dewatering shall be included in the cost of the flow channel reconstruction and will not be paid for separately.

MEASUREMENT AND PAYMENT

The completed work as measured shall be paid at the contract unit price for the following contract items (pay items):

PAY ITEM	PAY UNIT
Reconstruct flow channel	Ea

Payment for this item of work shall include all labor, materials and equipment needed to accomplish the work, regardless of depth or type of structure.

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DETAILED SPECIFICATION
FOR
ITEM #241 - MANHOLE CEMENTITIOUS LINER

DESCRIPTION

Sanitary sewer manhole cementitious liner with spray applied or centrifugally cast light-weight structural reinforced concrete.
The Cementitious Liner shall be applied on the manhole base, bench, walls, corbel/cone, and chimney of brick, block, or precast manholes.

INSTALLER EXPERIENCE AND QUALIFICATIONS

Contractor must demonstrate a minimum of 3-years of recent experience.

SUBMITTALS

Submit to the Owner for review and acceptance at least 14-days prior to starting manhole cementation for the following:

- Manufacturers' Certificate of Compliance certifying compliance with the applicable Specifications and Standards. The certifications shall list all materials furnished under this Section.
- Certified copies of factory tests required by the applicable Standards, the Manufacturer, and this Section.
- Manufacturer's handling, storage, and installation instructions and procedures.

MATERIALS

- The materials used shall be designed, manufactured, and intended for sewer manhole rehabilitation and the specific application in which they are used.
-
- The materials shall have a proven history of performance in sewer manhole rehabilitation. The materials shall be delivered to the job site in original unopened packages clearly labeled with the manufacturer's identification and printed instructions.
-
- All materials shall be stored and handled in accordance with recommendations of the manufacturer.
-
- All materials shall be mixed and applied in accordance with the manufacturer's written instructions.
-
- The material applied to the surface of the manhole shall be a cementitious blend
- of calcium aluminate cement and manufactured calcium aluminate aggregates
- for constructing a liner that is impervious to the flow of water, is resistant to
- sulfide attack, and restores structural integrity to existing manhole walls.
-
- A monolithic liner shall be formed which covers all interior manhole surfaces and
- shall have the following minimum requirements at 28-days:

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DETAILED SPECIFICATION
FOR
ITEM #241 - MANHOLE CEMENTITIOUS LINER

- Compressive Strength (ASTM C-579B) 3,000-psi
- Tensile Strength (ASTM C-496) 300-psi
- Flexural Strength (ASTM C-293) (Modified) 600-psi
- Shrinkage (ASTM C-596) 0% at 90% R.H.
- Bond (ASTM C-321) 130-psi
-

PREPARATORY PROCEDURES

Contractor will perform preliminary cleaning of the structure with high-pressure water-blasting at a minimum of 4000psi and 4gpm to obtain the desired concrete surface profile (CSP) of 3 or greater. If the desired CSP is not achieved by high-pressure water-blasting other methods of obtaining the surface profile such as abrasive blasting and acid etching shall be used.

The Contractor shall remove all the existing manhole steps. The metal portion of all steps will be removed to within ½" of the manhole interior wall surface. The remaining protruding metal portion of the step shall be covered with a cementitious material to provide a smooth surface on and around the protrusion for the liner to bond.

All open joints, voids, holes, cracks, and missing bricks larger than 3 inches in diameter or equivalent shall be patched with a cementitious material to provide a smooth surface for the cementitious liner to bond.

All roots, loose, cracked or disintegrated material shall be removed from the area to be patched exposing a sound substrate. The cementitious patch material shall be allowed to cure according to the manufacturer's specifications before continuing with the cementitious Liner installation process.

Bench shall be sloped so that water will flow back into channel.

When the channel is required to be lined the Contractor shall plug the inlet pipe, inspect for infiltration leaks around the inlet and outlet pipes and in the channel. All leaks present shall be stopped by the use of chemical grout injection and/or by the use of fast-setting cement.

The final prepared surface shall have a concrete surface profile of 3 or greater and have a smooth uniform appearance.

FINISHED LINER

The finished Cementitious Liner shall be continuous over the entire length of the structure from the cover seat to the invert, including the channel. Liner shall be bonded to the structure, as required by design, and in such a way as to not allow any water to flow behind the liner and enter back into the waste stream.

The liner shall be visually inspect from inside the structure for any defects that may affect performance of the liner. All defects shall be fixed to conform with these specifications.

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DETAILED SPECIFICATION
FOR
ITEM #241 - MANHOLE CEMENTITIOUS LINER

CLEANUP

Clean up the entire project area after the work is completed and all testing accepted. Remove and dispose of all excess material and debris not incorporated into the permanent installation.

MAINTENANCE

Any defects shall be repaired in accordance with the manufacturers' recommendations on an as needed basis.

WARRANTY

Manufacturer and Installer of the Liner system shall provide a 10 year warranty on materials and labor.

MEASUREMENT AND PAYMENT

Cementitious Liner shall be measured as units, complete in place. The completed work as measured shall be paid at the contract unit price for the following contract items (pay items):

PAY ITEM	PAY UNIT
Cementitious Liner	Vf

Payment for this item of work shall include all labor, materials and equipment needed to accomplish the work, regardless of depth or type of structure.

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DETAILED SPECIFICATION
FOR
ITEM #242 – CLEAN-UP & RESTORATION, SPECIAL

DESCRIPTION

This item of work shall conform to Division IX, Section II, Item No. 891, Clean-Up & Restoration of the Public Services Area Standard Specifications, except as specified herein.

This work shall include the removal of all surplus materials from the site including; but not limited to; tools, dirt, rubbish, construction debris, and excess excavated material. This work shall also include the restoration of all existing lawn areas, road surfaces, culverts, drives, and sidewalks disturbed by the work. This work includes placing topsoil, fertilizer, seeding, and furnishing and installing mulch blankets on all disturbed areas as approved by the Engineer. Mulch blankets are required on all seeded areas.

MATERIALS

The materials shall meet the requirements specified in the MDOT 2012 Standard Specifications as designated, as specified herein, and as approved by the Engineer:

- Seed shall be THM seed mixture as described in Table 8 16-1.
- Fertilizers shall be a Class A. The percentages by weight shall be 12- 12- 12, or as approved by the Engineer.
- Water used shall be obtained from fresh water sources and shall be free from injurious chemicals and other toxic substances.
- Mulch blankets shall be High Velocity Straw Mulch Blankets as specified in MDOT section 917.

MAINTENANCE AND ACCEPTANCE

It is the responsibility of the Contractor to establish a dense lawn of permanent grasses, free from mounds and depressions prior to final acceptance and payment of this project. Any portion of a seeded area that fails to show a uniform germination shall be reseeded. Such reseeding shall be at the Contractor's expense and shall continue until a dense lawn is established. The Contractor is responsible for restoring all areas disturbed by his construction.

The Contractor shall maintain all lawn areas until they have been accepted by the Engineer. Lawn maintenance shall begin immediately after the grass seed is in place and continue until final acceptance with the following requirements:

Lawns shall be protected and maintained by watering, mowing, and reseeding as necessary, until the period of time when the final acceptance and payment is made by the Engineer for the project, to establish a uniform, weed-free, stand of the specified grasses. Maintenance includes furnishing and installing additional topsoil, and reseeding all as may be required to correct all settlement and erosion until the date of final acceptance.

Damage to seeded areas resulting from erosion shall be repaired by the Contractor at the Contractor's expense. Scattered bare spots in seeded areas will not be allowed over three (3) percent of the area nor greater than 6"x 6" in size.

When the above requirements have been fulfilled, the Engineer will accept the lawn.

Cleanup and Restoration must be performed upon the completion of each sub-phase of work (as described in the Detailed Specification for Project Schedule), and not as one single operation at the completion of the entire project.

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DETAILED SPECIFICATION
FOR
ITEM #242 – CLEAN-UP & RESTORATION, SPECIAL

2 of 2

MEASUREMENT AND PAYMENT

Measurement and payment for this item of work shall conform to Division IX, Section 2, Item No. 891, Clean-Up & Restoration of the Public Services Area Standard Specifications except as modified herein.

The completed work for "Clean-Up & Restoration, Special" will be paid for on a lump sum (LS) basis. 80% of said lump sum shall be paid upon completion and approval of the site by the Engineer. By May 31st of the year following the completion of the project, the Engineer will inspect the seeded turf to ensure that the end product is well established; weed free, and in a growing and vibrant condition. If the Engineer determines that the restored areas meet the project requirements, the remaining 20% of the lump sum will be paid. If the Engineer determines that the restored areas do not meet the project requirements, the Contractor will continue with any and all measures necessary to meet the project requirements. All costs associated with the remedial measures shall be borne entirely by the Contractor.

Pay Item	Pay Unit
Clean-Up & Restoration, Special	Lump Sum

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DETAILED SPECIFICATION
FOR
CERTIFIED PAYROLL COMPLIANCE AND REPORTING

1 of 2

DESCRIPTION

This specification covers all administrative requirements, payroll reporting procedures to be followed by Contractors performing work on City-sponsored public improvements projects, and all other miscellaneous and incidental costs associated with complying with the applicable sections of the City of Ann Arbor Code of Ordinances with regard to payment of prevailing wages and its Prevailing Wage Compliance policy.

This specification is not intended to include the actual labor costs associated with the payment of prevailing wages as required. Those costs should be properly incorporated in all other items of work bid.

GENERAL

The Contractor is expected to comply with all applicable sections of Federal and State prevailing wage laws, duly promulgated regulations, the City of Ann Arbor Code of Ordinances, and its Prevailing Wage Compliance Policy as defined within the contract documents. The Contractor shall provide the required certified payrolls, city-required declarations, and reports requested elsewhere in the contract documents within the timeline(s) stipulated therein.

The Contractor shall also provide corrected copies of any submitted documents that are found to contain errors, omissions, inconsistencies, or other defects that render the report invalid. The corrected copies shall be provided when requested by the Supervising Professional.

The Contractor shall also attend any required meetings as needed to fully discuss and ensure compliance with the contract requirements regarding prevailing wage compliance. The Contractor shall require all employees engaged in on-site work to participate in, provide the requested information to the extent practicable, and cooperate in the interview process. The City of Ann Arbor will provided the needed language interpreters in order to perform wage rate interviews or other field investigations as needed.

Certified Payrolls may be submitted on City-provided forms or forms used by the Contractor, as long as the Contractor's forms contain all required payroll information. If the Contractor elects to provide their own forms, the forms shall be approved by the Supervising Professional prior to the beginning of on-site work.

UNBALANCED BIDDING

The City of Ann Arbor will examine the submitted cost for this item of work prior to contract award. If the City determines, in its sole discretion, that the costs bid by the Contractor for complying with the contract requirements are not reasonable, accurately reported, or may contain discrepancies, the City reserves the right to request additional documentation that fully supports and justifies the price as bid. Should the submitted information not be determined to be reasonable or justify the costs, the City reserves the right to pursue award of the contract to the second low bidder without penalty or prejudice to any other remedies that it may have or may elect to exercise with respect to the original low-bidder.

The Contract Completion date will not be extended as a result of the City's investigation of the as-bid amount for this item of work, even if the anticipated contract award date must be adjusted. The only exception will be if the Contractor adequately demonstrates that their costs were appropriate and justifyable. If so, the City will adjust the contract completion date by the number of calendar days commensurate with the length of the investigation, if the published Notice to Proceed date of the work cannot be met. The contract unit prices for all other items of work will not be adjusted regardless of an adjustment of the
contract completion date being made.

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MEASUREMENT AND PAYMENT

The completed work as measured for this item of work will be paid for at the Contract Unit Price for the following Contract (Pay) Item:

PAY ITEM	PAY UNIT
Certified Payroll Compliance and Reporting	Lump Sum

The unit price for this item of work shall include all supervisory, accounting, administrative, and equipment costs needed to monitor and perform all work related to maintaining compliance with the tasks specified in this Detailed Specification, the City of Ann Arbor Code of Ordinances, its Prevailing Wage Compliance policy and the applicable Federal and State laws.

Payment for this work will be made with each progress payment, on a pro-rata basis, based on the percentage of construction completed. When all of the work of this contract has been completed, the measurement of this item shall be 1.0 times the Lump Sum bid amount. This amount will not be increased for any reason, including extensions of time, extra work, and/or adjustments to existing items of work.

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DETAILED SPECIFICATIONS
FOR
GENERAL CONSTRUCTION NOTES

The following notes pertain to all Plan sheets issued as part of this Contract, and these notes shall be considered part of each Plan sheet or Detailed Information Sheet.

1. All work shall conform to latest revision of the City Standard Specifications.

2. The Contractor shall maintain access to all drives throughout the course of construction. Drives shall never be closed during non-working hours, unless otherwise authorized in writing by the Engineer.

3. The Contractor shall completely restore all existing site features to better than, or equal to, their existing condition.

4. The Contractor shall be aware that there are above-ground and below-ground utilities existing in and on these streets which include, but are not limited to: gas mains and service leads; water mains and service leads; storm sewer mains and service leads; sanitary sewer mains and service leads; telephone poles, wires, cables and conduits; electrical poles, wires, cables and conduits; cable television wires, cables and conduits, and other various utilities. The Contractor shall conduct all of its work so as not to damage or alter in any way, any existing utility, except where specified on the Plans or where directed by the Engineer. The City has videotaped and cleaned all sanitary and storm sewers, including storm sewer inlet leads, and has found all of these facilities to be in good condition, with the exception of those shown on the Plans for repairs or replacement.

5. The Contractor is solely responsible for any delays, damages, costs and/or charges incurred due to and/or by reason of any utility, structure, feature and/or site condition, whether shown on the Plans or not, and the Contractor shall repair and/or replace, at its sole expense, to as good or better condition, any and all utilities, structures, features and/or site conditions which are impacted by reason of the work, or injured by its operations, or injured during the operations of its subcontractors or suppliers.

6. No extra payments or adjustments to unit prices will be made for damages, delays, costs and/or charges due to existing utilities, structures, features and/or site conditions not shown or being incorrectly shown or represented on the Plans.

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DETAILED SPECIFICATION
FOR
DISPOSING OF EXCAVATED MATERIAL

The Contractor shall dispose of, at the Contractor's expense, all excavated material. Costs for this work will not be paid for separately, but shall be included in the bid price of the Contract Item "General Conditions."

DETAILED SPECIFICATION
FOR
PROTECTION OF UTILITIES

Damages to utilities by the Contractor's operations shall be repaired by the utility owner at the Contractor's expense. Delays to the work due to utility repairs are the sole responsibility of the Contractor.

The Contractor shall keep construction debris out of utilities at all times. The Contractor shall be back charged an amount of $50.00 per day for each manhole/inlet/utility pipe that contains construction debris caused as a result of the Contractor's (including subcontractors and suppliers) work.

The Contractor is solely responsible for any damages to the utilities or abutting properties due to construction debris.

Certain sanitary and storm sewers within the influence of construction may have been cleaned and videotaped prior to construction. The City may also choose to videotape utility line(s) during or after the work of this Contract to inspect them for damages and/or construction debris. If such inspection shows damage and/or debris, then all costs of such inspection, cleaning, repairs, etc, shall be the Contractor's sole responsibility. If such inspection is negative, the City will be responsible for the costs of such inspection.

Costs for this work will not be paid for separately, but shall be included in the bid price of the Contract Item "General Conditions."

DETAILED SPECIFICATION
FOR
SOIL EROSION AND SEDIMENTATION CONTROL MEASURES

The Contractor shall furnish, place, maintain and remove soil erosion and sedimentation control measures, including but not limited to, fabric filters at all drainage structures, all in accordance with all applicable City (and other governmental agencies) codes and standards, as directed by the Engineer, as detailed in the Standard Specifications, and as shown on the Plans.

Costs for this work will not be paid for separately, but shall be included in the bid price of the Contract Item "General Conditions."

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DETAILED SPECIFICATION
FOR
VACUUM TYPE STREET AND UTILITY STRUCTURE CLEANING EQUIPMENT

The Contractor shall furnish and operate throughout the construction period, vacuum type street cleaning and utility structure cleaning equipment (Vac-All, Vactor, etc.) approved by the Engineer, as and when directed by the Engineer for dust control, for dirt/debris control, and for street cleaning immediately prior to, and for street and utility structure cleaning after any and all paving. The cleaning equipment shall be of sufficient power to remove dust, dirt, and debris from the pavement and from utility structures in and adjacent to the construction area.

Costs for this work will not be paid for separately, but shall be included in the bid price of the Contract Item "General Conditions."

DETAILED SPECIFICATION
FOR
MATERIALS AND SUPPLIES CERTIFICATIONS

The following materials and supplies shall be certified by the manufacturer or supplier as having been tested for compliance with the Specifications:

HMA materials
Hot-poured Joint Sealants
Cements, coatings, admixtures and curing materials
Sands and Aggregates
Steel and Fabricated metal
Portland Cement Concrete Mixtures
Reinforcing Steel for Concrete
Reinforcing Fibers for Concrete
Pre-cast Concrete products
Sanitary Sewer Pipe
Storm Sewer Pipe
Water Main Pipe
Corrugated Metal Pipe
High Density Polyethylene Pipe
Timber for retaining walls
Modular Concrete Block for retaining walls
Edge Drain and Underdrain Pipe
Geotextile Filter Fabric and Stabilization Fabric/Grids

The Contractor shall submit all certifications to the Engineer for review and approval a minimum of three business days prior to any scheduled delivery, installation, and/or construction of same.

Costs for this work will not be paid for separately but shall be included in the bid price of the Contract Item "General Conditions."

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APPENDIX

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ATTACHMENT B
GENERAL DECLARATIONS

City of Ann Arbor
Guy C. Larcom Municipal Building
Ann Arbor, Michigan 48107

Ladies and Gentlemen:

The undersigned, as Bidder, declares that this Bid is made in good faith, without fraud or collusion with any person or persons bidding on the same Contract; that this Bidder has carefully read and examined the bid documents, including City Nondiscrimination requirements and Declaration of Compliance Form, Living Wage requirements and Declaration of Compliance Form, Prevailing Wage requirements and Declaration of Compliance Form, Vendor Conflict of Interest Form, Notice of Pre-Bid Conference, General Information, Bid, Bid Forms, Contract, Bond Forms, General Conditions, Standard Specifications, Detailed Specifications, all Addenda, and the Plans (if applicable) and understands them. The Bidder declares that it conducted a full investigation at the site and of the work proposed and is fully informed as to the nature of the work and the conditions relating to the work's performance. The Bidder also declares that it has extensive experience in successfully completing projects similar to this one.

The Bidder acknowledges that it has not received or relied upon any representations or warrants of any nature whatsoever from the City of Ann Arbor, its agents or employees, and that this Bid is based solely upon the Bidder's own independent business judgment.

The undersigned proposes to perform all work shown on the plans or described in the bid documents, including any addenda issued, and to furnish all necessary machinery, tools, apparatus, and other means of construction to do all the work, furnish all the materials, and complete the work in strict accordance with all terms of the Contract of which this Bid is one part.

In accordance with these bid documents, and Addenda numbered _____, the undersigned, as Bidder, proposes to perform at the sites in and/or around Ann Arbor, Michigan, all the work included herein for the amounts set forth in the Bid Forms.

The Bidder declares that it has become fully familiar with the liquidated damage clauses for completion times and for compliance with City Code Chapter 112, understands and agrees that the liquidated damages are for the non-quantifiable aspects of non-compliance and do not cover actual damages that may be shown and agrees that if awarded the Contract, all liquidated damage clauses form part of the Contract.

The Bidder declares that it has become fully familiar with the provisions of Chapter 14, Section 1:320 (Prevailing wages) and Chapter 23 (Living Wage) of the Code of the City of Ann Arbor and that it understands and agrees to comply, to the extent applicable to employees providing services to the City under this Contract, with the wage and reporting requirements stated in the City Code provisions cited. Bidder certifies that the statements contained in the City Prevailing Wage and Living Wage Declaration of Compliance Forms are true and correct. Bidder further agrees that the cited provisions of Chapter 14 and Chapter 23 form a part of this Contract.

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The Bidder declares that it has become familiar with the City Conflict of Interest Disclosure Form and certifies that the statement contained therein is true and correct.

The Bidder encloses a certified check or Bid Bond in the amount of 5% of the total of the Bid Price. The Bidder agrees both to contract for the work and to furnish the necessary Bonds and insurance documentation within 10 days after being notified of the acceptance of the Bid.

If this Bid is accepted by the City and the Bidder fails to contract and furnish the required Bonds and insurance documentation within 10 days after being notified of the acceptance of this Bid, then the Bidder shall be considered to have abandoned the Contract and the certified check or Bid Bond accompanying this Bid shall become due and payable to the City.

If the Bidder enters into the Contract in accordance with this Bid, or if this Bid is rejected, then the accompanying check or Bid Bond shall be returned to the Bidder.

In submitting this Bid, it is understood that the right is reserved by the City to accept any Bid, to reject any or all Bids, to waive irregularities and/or informalities in any Bid, and to make the award in any manner the City believes to be in its best interest.

SIGNED THIS _____ DAY OF _____, 202_.

_____	_____
Bidder's Name	Authorized Signature of Bidder
_____	_____
Official Address	(Print Name of Signer Above)
_____	_____
Telephone Number	Email Address for Award Notice

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ATTACHMENT C
LEGAL STATUS OF BIDDER

(The bidder shall fill out the appropriate form and strike out the other three.)

Bidder declares that it is:

* A corporation organized and doing business under the laws of the State of _____, for whom _____, bearing the office title of _____, whose signature is affixed to this Bid, is authorized to execute contracts.

NOTE: If not incorporated in Michigan, please attach the corporation's Certificate of Authority

• A limited liability company doing business under the laws of the State of _____, whom _____ bearing the title of _____ whose signature is affixed to this proposal, is authorized to execute contract on behalf of the LLC.

* A partnership, organized under the laws of the state of _____ and filed in the county of _____, whose members are (list all members and the street and mailing address of each) (attach separate sheet if necessary):

_____

_____

_____

_____

_____

* An individual, whose signature with address, is affixed to this Bid: __ _____
(initial here)

Authorized Official

_____ **Date** _____**,** 202_

(Print) Name _____ Title _____

Company:

_____

Address:

_____

Contact Phone ( ) _____ Fax ( ) _____

Email _____

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ATTACHMENT D
PREVAILING WAGE DECLARATION OF COMPLIANCE

The "wage and employment requirements" of Section 1:320 of Chapter 14 of Title I of the Ann Arbor City Code mandates that the city not enter any contract, understanding or other arrangement for a public improvement for or on behalf of the city unless the contract provides that all craftsmen, mechanics and laborers employed directly on the site in connection with said improvements, including said employees of subcontractors, shall receive the prevailing wage for the corresponding classes of craftsmen, mechanics and laborers, as determined by statistics for the Ann Arbor area compiled by the United States Department of Labor. Where the contract and the Ann Arbor City Code are silent as to definitions of terms required in determining contract compliance with regard to prevailing wages, the definitions provided in the Davis-Bacon Act as amended (40 U.S.C. 278-a to 276-a-7) for the terms shall be used. Further, to the extent that any employees of the contractor providing services under this contract are not part of the class of craftsmen, mechanics and laborers who receive a prevailing wage in conformance with section 1:320 of Chapter 14 of Title I of the Code of the City of Ann Arbor, employees shall be paid a prescribed minimum level of compensation (i.e. Living Wage) for the time those employees perform work on the contract in conformance with section 1:815 of Chapter 23 of Title I of the Code of the City of Ann Arbor.

At the request of the city, any contractor or subcontractor shall provide satisfactory proof of compliance with this provision.

The Contractor agrees:

(a) To pay each of its employees whose wage level is required to comply with federal, state or local prevailing wage law, for work covered or funded by this contract with the City,

(b) To require each subcontractor performing work covered or funded by this contract with the City to pay each of its employees the applicable prescribed wage level under the conditions stated in subsection (a) or (b) above.

(c) To provide to the City payroll records or other documentation within ten (10) business days from the receipt of a request by the City.

(d) To permit access to work sites to City representatives for the purposes of monitoring compliance, and investigating complaints or non-compliance.

The undersigned states that he/she has the requisite authority to act on behalf of his/her employer in these matters and has offered to provide the services in accordance with the terms of the wage and employment provisions of the Chapter 14 of the Ann Arbor City Code. The undersigned certifies that he/she has read and is familiar with the terms of Section 1:320 of Chapter 14 of the Ann Arbor City Code and by executing this Declaration of Compliance obligates his/her employer and any subcontractor employed by it to perform work on the contract to the wage and employment requirements stated herein. The undersigned further acknowledges and agrees that if it is found to be in violation of the wage and employment requirements of Section 1:320 of the Chapter 14 of the Ann Arbor City Code it shall has be deemed a material breach of the terms of the contract and grounds for termination of same by the City.

_____
Company Name

_____
Signature of Authorized Representative Date

_____
Print Name and Title

_____
Address, City, State, Zip

_____
Phone/Email address

Questions about this form? Contact Procurement Office City of Ann Arbor Phone: 734/794-6500

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ATTACHMENT E
LIVING WAGE ORDINANCE DECLARATION OF COMPLIANCE

The Ann Arbor Living Wage Ordinance (Section 1:811-1:821 of Chapter 23 of Title I of the Code) requires that an employer who is (a) a contractor providing services to or for the City for a value greater than $10,000 for any twelve-month contract term, or (b) a recipient of federal, state, or local grant funding administered by the City for a value greater than $10,000, or (c) a recipient of financial assistance awarded by the City for a value greater than $10,000, shall pay its employees a prescribed minimum level of compensation (i.e., Living Wage) for the time those employees perform work on the contract or in connection with the grant or financial assistance. The Living Wage must be paid to these employees for the length of the contract/program.

Companies employing fewer than 5 persons and non-profits employing fewer than 10 persons are exempt from compliance with the Living Wage Ordinance. If this exemption applies to your company/non-profit agency please check here [___] *No. of employees*__

The Contractor or Grantee agrees:

(a) To pay each of its employees whose wage level is not required to comply with federal, state or local prevailing wage law, for work covered or funded by a contract with or grant from the City, no less than the Living Wage. The current Living Wage is defined as $15.90/hour for those employers that provide employee health care (as defined in the Ordinance at Section 1:815 Sec. 1 (a)), or no less than $17.73/hour for those employers that do not provide health care. The Contractor or Grantor understands that the Living Wage is adjusted and established annually on April 30 in accordance with the Ordinance and covered employers shall be required to pay the adjusted amount thereafter to be in compliance with Section 1:815(3).

Check the applicable box below which applies to your workforce

[___] Employees who are assigned to any covered City contract/grant will be paid at or above the applicable living wage without health benefits

[___] Employees who are assigned to any covered City contract/grant will be paid at or above the applicable living wage with health benefits

(b) To post a notice approved by the City regarding the applicability of the Living Wage Ordinance in every work place or other location in which employees or other persons contracting for employment are working.

(c) To provide to the City payroll records or other documentation within ten (10) business days from the receipt of a request by the City.

(d) To permit access to work sites to City representatives for the purposes of monitoring compliance, and investigating complaints or non-compliance.

(e) To take no action that would reduce the compensation, wages, fringe benefits, or leave available to any employee covered by the Living Wage Ordinance or any person contracted for employment and covered by the Living Wage Ordinance in order to pay the living wage required by the Living Wage Ordinance.

The undersigned states that he/she has the requisite authority to act on behalf of his/her employer in these matters and has offered to provide the services or agrees to accept financial assistance in accordance with the terms of the Living Wage Ordinance. The undersigned certifies that he/she has read and is familiar with the terms of the Living Wage Ordinance, obligates the Employer/Grantee to those terms and acknowledges that if his/her employer is found to be in violation of Ordinance it may be subject to civil penalties and termination of the awarded contract or grant of financial assistance.

_____ Company Name	_____ Street Address
_____ Signature of Authorized Representative Date	_____ City, State, Zip
_____ Print Name and Title	_____ Phone/Email address

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Attachment F

CITY OF ANN ARBOR
LIVING WAGE ORDINANCE

RATE EFFECTIVE APRIL 30, 2023 - ENDING APRIL 29, 2024

$15.90 per hour
If the employer provides health care benefits*

$17.73 per hour
If the employer does **NOT** provide health care benefits*

Employers providing services to or for the City of Ann Arbor or recipients of grants or financial assistance from the City of Ann Arbor for a value of more than $10,000 in a twelve-month period of time must pay those employees performing work on a City of Ann Arbor contract or grant, the above living wage.

V.

W. ENFORCEMENT

X. The City of Ann Arbor may recover back wages either administratively or through court action for the employees that have been underpaid in violation of the law. Persons denied payment of the living wage have the right to bring a civil action for damages in addition to any action taken by the City.

Violation of this Ordinance is punishable by fines of not more than $500/violation plus costs, with each day being considered a separate violation. Additionally, the City of Ann Arbor has the right to modify, terminate, cancel or suspend a contract in the event of a violation of the Ordinance.

* Health Care benefits include those paid for by the employer or making an employer contribution toward the purchase of health care. The employee contribution must not exceed $.50 an hour for an average work week; and the employer cost or contribution must equal no less than $1/hr for the average work week.

The Law Requires Employers to Display This Poster Where Employees Can Readily See It.

For Additional Information or to File a Complaint contact
Colin Spencer at 734/794-6500 or cspencer@a2gov.org

Revised 2/1/2023

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ATTACHEMENT G

Vendor Conflict of Interest Disclosure Form

All vendors interested in conducting business with the City of Ann Arbor must complete and return the Vendor Conflict of Interest Disclosure Form in order to be eligible to be awarded a contract. Please note that all vendors are subject to comply with the City of Ann Arbor's conflict of interest policies as stated within the certification section below.

If a vendor has a relationship with a City of Ann Arbor official or employee, an immediate family member of a City of Ann Arbor official or employee, the vendor shall disclose the information required below.

1. No City official or employee or City employee's immediate family member has an ownership interest in vendor's company or is deriving personal financial gain from this contract.
2. No retired or separated City official or employee who has been retired or separated from the City for less than one (1) year has an ownership interest in vendor's Company.
3. No City employee is contemporaneously employed or prospectively to be employed with the vendor.
4. Vendor hereby declares it has not and will not provide gifts or hospitality of any dollar value or any other gratuities to any City employee or elected official to obtain or maintain a contract.
5. Please note any exceptions below:

Conflict of Interest Disclosure*	
Name of City of Ann Arbor employees, elected officials or immediate family members with whom there may be a potential conflict of interest.	( ) Relationship to employee _____ ( ) Interest in vendor's company ( ) Other (please describe in box below)

*Disclosing a potential conflict of interest does not disqualify vendors. In the event vendors do not disclose potential conflicts of interest and they are detected by the City, vendor will be exempt from doing business with the City.

I certify that this Conflict of Interest Disclosure has been examined by me and that its contents are true and correct to my knowledge and belief and I have the authority to so certify on behalf of the Vendor by my signature below:		
Vendor Name	**Vendor Phone Number**	
Signature of Vendor Authorized Representative	**Date**	**Printed Name of Vendor Authorized Representative**

Questions about this form? Contact Procurement Office City of Ann Arbor Phone: 734/794-6500, procurement@a2gov.org

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ATTACHMENT H

DECLARATION OF COMPLIANCE

Non-Discrimination Ordinance

The "non discrimination by city contractors" provision of the City of Ann Arbor Non-Discrimination Ordinance (Ann Arbor City Code Chapter 112, Section 9:158) requires all contractors proposing to do business with the City to treat employees in a manner which provides equal employment opportunity and does not discriminate against any of their employees, any City employee working with them, or any applicant for employment on the basis of actual or perceived age, arrest record, color, disability, educational association, familial status, family responsibilities, gender expression, gender identity, genetic information, height, HIV status, marital status, national origin, political beliefs, race, religion, sex, sexual orientation, source of income, veteran status, victim of domestic violence or stalking, or weight. It also requires that the contractors include a similar provision in all subcontracts that they execute for City work or programs.

In addition the City Non-Discrimination Ordinance requires that all contractors proposing to do business with the City of Ann Arbor must satisfy the contract compliance administrative policy adopted by the City Administrator. A copy of that policy may be obtained from the Purchasing Manager

The Contractor agrees:

(a) To comply with the terms of the City of Ann Arbor's Non-Discrimination Ordinance and contract compliance administrative policy, including but not limited to an acceptable affirmative action program if applicable.

(b) To post the City of Ann Arbor's Non-Discrimination Ordinance Notice in every work place or other location in which employees or other persons are contracted to provide services under a contract with the City.

(c) To provide documentation within the specified time frame in connection with any workforce verification, compliance review or complaint investigation.

(d) To permit access to employees and work sites to City representatives for the purposes of monitoring compliance, or investigating complaints of non-compliance.

The undersigned states that he/she has the requisite authority to act on behalf of his/her employer in these matters and has offered to provide the services in accordance with the terms of the Ann Arbor Non-Discrimination Ordinance. The undersigned certifies that he/she has read and is familiar with the terms of the Non-Discrimination Ordinance, obligates the Contractor to those terms and acknowledges that if his/her employer is found to be in violation of Ordinance it may be subject to civil penalties and termination of the awarded contract.

_____
Company Name

_____
Signature of Authorized Representative Date

_____
Print Name and Title

_____
Address, City, State, Zip

_____
Phone/Email Address

Questions about the Notice or the City Administrative Policy, Please contact:
Procurement Office of the City of Ann Arbor
(734) 794-6500

DocuSign Envelope ID: E6258E13-1F01-485C-91C3-A674AA7D7B6B

ATTACHMENT I

CITY OF ANN ARBOR NON-DISCRIMINATION ORDINANCE

Relevant provisions of Chapter 112, Nondiscrimination, of the Ann Arbor City Code are included below. You can review the entire ordinance at www.a2gov.org/humanrights.

Intent: It is the intent of the city that no individual be denied equal protection of the laws; nor shall any individual be denied the enjoyment of his or her civil or political rights or be discriminated against because of actual or perceived age, arrest record, color, disability, educational association, familial status, family responsibilities, gender expression, gender identity, genetic information, height, HIV status, marital status, national origin, political beliefs, race, religion, sex, sexual orientation, source of income, veteran status, victim of domestic violence or stalking, or weight.

Discriminatory Employment Practices: No person shall discriminate in the hire, employment, compensation, work classifications, conditions or terms, promotion or demotion, or termination of employment of any individual. No person shall discriminate in limiting membership, conditions of membership or termination of membership in any labor union or apprenticeship program.

Discriminatory Effects: No person shall adopt, enforce or employ any policy or requirement which has the effect of creating unequal opportunities according to actual or perceived age, arrest record, color, disability, educational association, familial status, family responsibilities, gender expression, gender identity, genetic information, height, HIV status, marital status, national origin, political beliefs, race, religion, sex, sexual orientation, source of income, veteran status, victim of domestic violence or stalking, or weight for an individual to obtain housing, employment or public accommodation, except for a bona fide business necessity. Such a necessity does not arise due to a mere inconvenience or because of suspected objection to such a person by neighbors, customers or other persons.

Nondiscrimination by City Contractors: All contractors proposing to do business with the City of Ann Arbor shall satisfy the contract compliance administrative policy adopted by the City Administrator in accordance with the guidelines of this section. All city contractors shall ensure that applicants are employed and that employees are treated during employment in a manner which provides equal employment opportunity and tends to eliminate inequality based upon any classification protected by this chapter. All contractors shall agree not to discriminate against an employee or applicant for employment with respect to hire, tenure, terms, conditions, or privileges of employment, or a matter directly or indirectly related to employment, because of any applicable protected classification. All contractors shall be required to post a copy of Ann Arbor's Non-Discrimination Ordinance at all work locations where its employees provide services under a contract with the city.

Complaint Procedure: If any individual believes there has been a violation of this chapter, he/she may file a complaint with the City's Human Rights Commission. The complaint must be filed within 180 calendar days from the date of the individual's knowledge of the allegedly discriminatory action or 180 calendar days from the date when the individual should have known of the allegedly discriminatory action. A complaint that is not filed within this timeframe cannot be considered by the Human Rights Commission. To file a complaint, first complete the complaint form, which is available at www.a2gov.org/humanrights. Then submit it to the Human Rights Commission by e-mail (hrc@a2gov.org), by mail (Ann Arbor Human Rights Commission, PO Box 8647, Ann Arbor, MI 48107), or in person (City Clerk's Office). For further information, please call the commission at 734-794-6141 or e-mail the commission at hrc@a2gov.org.

Private Actions For Damages or Injunctive Relief: To the extent allowed by law, an individual who is the victim of discriminatory action in violation of this chapter may bring a civil action for appropriate injunctive relief or damages or both against the person(s) who acted in violation of this chapter.

THIS IS AN OFFICIAL GOVERNMENT NOTICE AND
MUST BE DISPLAYED WHERE EMPLOYEES CAN READILY SEE IT.

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Michigan Department
Of Transportation
CP-347 (04/10)

MICHIGAN DEPARTMENT OF TRANSPORTATION

CERTIFIED PAYROLL

COMPLETION OF CERTIFIED PAYROLL FORM FULFILLS THE MINIMUM MDOT PREVAILING WAGE REQUIREMENTS

(1) NAME OF CONTRACTOR / SUBCONTRACTOR (CIRCLE ONE) (2) ADDRESS

(3) PAYROLL NO. (4) FOR WEEK ENDING (5) PROJECT AND LOCATION (6) CONTRACT ID

(a) EMPLOYEE INFORMATION	(b) WORK CLASSIFICATION	(c) Hour Type	(d) DAY AND DATE — HOURS WORKED ON PROJECT	(e) TOTAL HOURS ON PROJECT	(f) PROJECT RATE OF PAY	(g) PROJECT RATE OF FRINGE PAY	(h) GROSS PROJECT EARNED / GROSS WEEKLY EARNED	(i) TOTAL WEEKLY HOURS WORKED ALL JOBS	(j) DEDUCTIONS: FICA	FEDERAL	STATE		OTHER	TOTAL DEDUCT	(k) TOTAL WEEKLY WAGES PAID FOR ALL JOBS
NAME:				0			$0.00								
														$0.00	$0.00
ETH/GEN: ID #:	GROUP/CLASS #:	S		0											
NAME:				0			$0.00								
														$0.00	$0.00
ETH/GEN: ID #:	GROUP/CLASS #:	S		0											
NAME:				0			$0.00								
														$0.00	$0.00
ETH/GEN: ID #:	GROUP/CLASS #:	S		0											
NAME:				0			$0.00								
														$0.00	$0.00
ETH/GEN: ID #:	GROUP/CLASS #:	S		0											
NAME:				0			$0.00								
														$0.00	$0.00
ETH/GEN: ID #:	GROUP/CLASS #:	S		0											
NAME:				0			$0.00								
														$0.00	$0.00
ETH/GEN: ID #:	GROUP/CLASS #:	S		0											
NAME:				0			$0.00								
														$0.00	$0.00
ETH/GEN: ID #:	GROUP/CLASS #:	S		0											
NAME:				0			$0.00								
														$0.00	$0.00
ETH/GEN: ID #:	GROUP/CLASS #:	S		0											
NAME:				0			$0.00								
														$0.00	$0.00
ETH/GEN: ID #:	GROUP/CLASS #:	S		0											
NAME:				0			$0.00								
														$0.00	$0.00
ETH/GEN: ID #:	GROUP/CLASS #:	S		0											

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Date _____

I, _____ _____
(Name of Signatory Party) (Title)

do hereby state:

(1) That I pay or supervise the payment of the persons employed by

_____ on the
(Contractor or Subcontractor)

_____; that during the payroll period commencing on the
(Building or Work)

_____ day of _____, _____, and ending the _____ day of _____, _____, all persons employed on said project have been paid the full weekly wages earned, that no rebates have been or will be made either directly or indirectly to or on behalf of said

_____ from the full
(Contractor or Subcontractor)

weekly wages earned by any person and that no deductions have been made either directly or indirectly from the full wages earned by any person, other than permissible deductions as defined in Regulations, Part 3 (29 C.F.R. Subtitle A), issued by the Secretary of Labor under the Copeland Act, as amended (48 Stat. 948, 63 Start. 108, 72 Stat. 967; 76 Stat. 357; 40 U.S.C. § 3145), and described below:

_____

_____

_____

_____

(2) That any payrolls otherwise under this contract required to be submitted for the above period are correct and complete; that the wage rates for laborers or mechanics contained therein are not less than the applicable wage rates contained in any wage determination incorporated into the contract; that the classifications set forth therein for each laborer or mechanic conform with the work he performed.

(3) That any apprentices employed in the above period are duly registered in a bona fide apprenticeship program registered with a State apprenticeship agency recognized by the Bureau of Apprenticeship and Training, United States Department of Labor, or if no such recognized agency exists in a State, are registered with the Bureau of Apprenticeship and Training, United States Department of Labor.

(4) That:

(a) WHERE FRINGE BENEFITS ARE PAID TO APPROVED PLANS, FUNDS, OR PROGRAMS

☐ – in addition to the basic hourly wage rates paid to each laborer or mechanic listed in the above referenced payroll, payments of fringe benefits as listed in the contract have been or will be made to appropriate programs for the benefit of such employees, except as noted in section 4(c) below.

(b) WHERE FRINGE BENEFITS ARE PAID IN CASH

☐ – Each laborer or mechanic listed in the above referenced payroll has been paid, as indicated on the payroll, an amount not less than the sum of the applicable basic hourly wage rate plus the amount of the required fringe benefits as listed in the contract, except as noted in section 4(c) below.

(c) EXCEPTIONS

EXCEPTION (CRAFT)	EXPLANATION

REMARKS:

NAME AND TITLE	SIGNATURE

THE WILLFUL FALSIFICATION OF ANY OF THE ABOVE STATEMENTS MAY SUBJECT THE CONTRACTOR OR SUBCONTRACTOR TO CIVIL OR CRIMINAL PROSECUTION. SEE SECTION 1001 OF TITLE 18 AND SECTION 231 OF TITLE 31 OF THE UNITED STATES CODE.