City of Edmond

Notice of Public Meeting

The City of Edmond encourages participation from all its citizens. To request an accommodation due to a disability, please contact the ADA Coordinator at least 48 hours prior to a scheduled meeting. The ADA Coordinator can be contacted by email: ADAcoordinator@edmondok.gov or phone: 405-359-4518.

Stormwater Drainage Advisory Board
Regular Meeting Agenda
City Council Chambers - 22 E. Main Street, Edmond, Oklahoma
4:00 p.m., Monday, October 19, 2026

Notice to the Public

Official action can only be taken on items which appear on the agenda. The Stormwater Drainage Advisory Board may discuss, adopt, approve, amend, reject, deny, strike or continue any item listed on the agenda. When more information is needed to act on an item, the Stormwater Drainage Advisory Board may refer the matter to City of Edmond staff for additional study. Under certain circumstances, items are deferred/continued to a specific later date or stricken from the agenda entirely.

1. Call to Order.

2. Consideration of Approval of Meeting Minutes: September 21, 2026

3. Consideration of Approval of Professional Services Agreement Amendment No. 1 with Surveying and Mapping, LLC (SAM) for Stormwater Infrastructure Survey Phase 2; $1,329,700.00.

4. Discussion and Presentation of Stormwater Quality Annual Updates.

5. Citizen Comments.

   This is an opportunity for residents and non-residents to address the Stormwater Drainage Advisory Board on Stormwater Drainage Advisory Board related matters not on the agenda or scheduled for a public hearing. All remarks must be directed to the Chair of the meeting, are limited to three minutes or less, and must otherwise be made in accordance with Section I of the City Council / Public Works Authority rules, available here and upon request at the City Clerk's Office.

   Please note that members of the Stormwater Drainage Advisory Board cannot respond to issues brought up in Citizen Comments if they are not on the agenda, in accordance with state law.

6. Comments from the Stormwater Drainage Advisory Board Chair and Members.

7. Adjournment.

Stormwater Drainage Advisory Board **2.**

Meeting Date: 10/19/2026

Submitted For: Steve Lawrence, Director, Engineering

Ward :

Information

Item

Consideration of Approval of Meeting Minutes: September 21, 2026

Attachments

10.19.26 SWAB Mtng Min

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1. Call the Stormwater Drainage Advisory Board to order.

Chairman Morris called the regular meeting of the Stormwater Drainage Advisory Board to order at 4:01 pm, Monday, September 21, 2026, in City Council Chambers located at 22 E. Main Street, Edmond, Oklahoma. The agenda for this meeting was posted in the City Hall Building on September 15, 2026, at 11:28 a.m.

Members Present: Ken Morris
Victor Carneiro
Barry Moore
Jeff Lux
Phil Fraim

Staff Present: Steve Lawrence, Director of Engineering
Ken Bryan, Director of Planning
Kirsten Ledington, Director of Development Services
Audrey Plunkett, Stormwater Engineer
Becca Smith, Planner

2. Consideration of Approval of Meeting Minutes – August 17, 2026.

Motion by Lux, seconded by Moore, to approve Item #2. Motion carried as follows:

Chairman Morris	Yes
Vice Chair Carneiro	Yes
Board Member Moore	Yes
Board Member Lux	Yes
Board Member Fraim	Yes

3. Discussion and Consideration of Approval of the 2027 Stormwater Drainage Advisory Board Schedule of Regular Meetings.

Chairman Morris noted that the first two meetings of the 2027 regular meeting schedule have been moved to Tuesday instead of Monday due to the Martin Luther King Jr. Day holiday in January and the Presidents Day holiday in February.

Motion by Fraim, seconded by Lux, to approve Item #2. Motion carried as follows:

Chairman Morris	Yes
Vice Chair Carneiro	Yes
Board Member Moore	Yes
Board Member Lux	Yes
Board Member Fraim	Yes

4. Public Hearing and Consideration of a Recommendation to Adopt a Unified Development Code Which Would Replace Municipal Codes for: Zoning, Subdivisions; Site Design and Development Standards; Stormwater Drainage; and Other General Regulatory Matters Related Thereto in the City of Edmond. (City of Edmond; Citywide)

Ken Bryan, Director of Planning, and **Becca Smith**, Planner, provided an overview of the Unified Development Code (UDC) updates, which focus on simplifying language, incorporating more graphics, and establishing higher standards to streamline processes, improve predictability for applicants, residents, and officials, and ensure high-quality development outcomes. The updates will address General Provisions, Zoning and Subdivision Regulations, Site Design and Development Standards, and Stormwater Drainage.

Audrey Plunkett, Stormwater Engineer, provided an overview of the stormwater changes within the UDC, noting that the primary change is relocating technical information to a separate document, the Unified Development Manual (UDM), which will incorporate the Engineering Criteria Manual (ECM). Floodplain regulations will remain in the UDC, while calculations, numerical requirements, and other technical information will be moved to the UDM. Ms. Plunkett stated that consolidating the ECM and technical information into one document will improve clarity and provide development applicants with a step-by-step checklist to help ensure compliance.

Kirsten Ledington, Director of Development Services, stated that Staff are working with an engineer who serves on the Development Impact Review Committee (DIRC) to research potential UDC changes to address grading challenges. An update will be provided at the November DIRC meeting.

Motion by Carneiro, seconded by Lux, to approve the evaluation and table any further action on this matter. Motion carried as follows:

Chairman Morris	Yes
Vice Chair Carneiro	Yes
Board Member Moore	Yes
Board Member Lux	Yes
Board Member Fraim	Yes

5. Citizen Comments.

None.

6. Comments from the Stormwater Drainage Advisory Board Chair and Members.

None.

7. Adjournment. There being no more business, a motion was made to adjourn by Board Member Moore and seconded by Board Member Fraim. Motion passed unanimously. Chairman Morris adjourned the meeting at 4:59 p.m.

Stormwater Drainage Advisory Board **3.**

Meeting Date: 10/19/2026

Submitted For: Steve Lawrence, Director, Engineering

Email: Steve.Lawrence@edmondok.gov , Phone: 405-359-4770

Submitted By: Audrey Plunkett, Stormwater Engineer, Engineering

Ward: Citywide

City Council Strategic Plan: Fiscal Diligence

Information

Item

Consideration of Approval of Professional Services Agreement Amendment No. 1 with Surveying and Mapping, LLC (SAM) for Stormwater Infrastructure Survey Phase 2; $1,329,700.00.

Background

The City of Edmond needs updated stormwater infrastructure data and maps to support long-term planning and asset management. The Stormwater Infrastructure Survey Project is a multi-phase project that will investigate existing stormwater infrastructure and collect high-quality spatial data that can be seamlessly integrated into the City's Geographic Information System (GIS). The surveying will include pictures, videos, and closed-circuit television (CCTV) inspection of the City's stormwater infrastructure system.

Phase 1 of this assessment began in May 2026 and encompassed approximately 3 square miles. During Phase 1, 850 new features were identified and added to our stormwater infrastructure inventory.

The proposed Professional Services Agreement Amendment No. 1 with Survey and Mapping, LLC will initiate Phase 2 of this project and continue to produce the information needed to update the City's GIS for a fee of $1,329,700.00.

Phase 2 of this assessment will include the area from Broadway to Bryant Ave between 2nd to 15th, and from Kelly Ave to Bryant Ave between 15th and the southern City Limit.

Original Contract Amount: $993,652.70
Amendment No. 1 Amount: $1,329,700.00
Total Contract Amount: $2,323,352.70

Time Frame

Immediate upon City Council approval.

Issue

Professional services are needed to produce a detailed stormwater infrastructure survey.

Recommendations

Staff recommends approval.

Action Needed

Motion to Approve.

Public Notifications

Posted to Stormwater Drainage Advisory Board Agenda.

Fiscal Impact

Amount:	$1,329,700.00
Account:	568038-8319

Additional Information :

Drainage Utility - Consulting and Professional Services

Attachments

Amendment No. 1

Sent via email: *Cammi.Branch@edmondok.gov*

September 30th, 2026

Cammi Branch
PMO Manager
City of Edmond, OK
P.O. Box 2970
Edmond, OK 73083

RE: ***Edmond, OK Stormwater Infrastructure Survey Phase I***
SAM Project No.: 1025101087

Dear *Cammi,*

SAM is submitting an amendment for Phase 2 to the attached contract for Stormwater Infrastructure Mapping. All unit rates will be invoiced per the attached contract.

Total estimates as provided by the city:

- Stormwater Structures: 3,444
- Stormwater Channels: 852
- Total Length of Pipe: 170,636 feet

Phase 2 Budget Allocation (Survey and Mapping, LLC) **$460,650.00**
Phase 2 Budget Allocation (Hydromax USA) **$869,050.00**

****Hydromax is not including CCTV mobilization costs listed in the fee above and is assuming Phase 1 will transition directly into Phase II without any gaps between phases. Any additional mobilizations will result in additional fees per the rate schedule in the attached contract.*

Original Contract Budget: **$993,652.70**
Budget related to this request (Not to Exceed): **$1,329,700.00**
Total authorized budget to date: **$2,323,352.70**

SAM will not begin performing work under this amendment without receiving an official response authorizing the fee defined above from a representative of your company. Additionally, accepting this approved notice to proceed does not preclude the need for SAM to receive a complete and formal binding document. The continuation of work and completion of this work is dependent on receiving a complete and binding document or executed contact revision within thirty (30) business days.

Please do not hesitate to reach out with any questions or comments.

Thank you,
Surveying And Mapping, LLC

Shane Hallowell
Kansas City GIS Department Manager

Task	Unit of Measure	Est. Qty.	Additional Coverage (25%)	Unit Price	Extended Price
Monuments	Each	0	0	$5,500.00	$0.00
Stormwater Structures	Each	2755	689	$101.50	$349,566.00
Stormwater Channels	Each	681	171	$92.00	$78,384.00
Detention / Retention Basins	Each	0	0	$275.50	$0.00
CCTV Integration	Each	1	0	$14,400.00	$14,400.00
Traffic Control Rolling	Day Rate	8	0	$1,500.00	$12,000.00
Traffic Control Lane Closure	Day Rate	3	0	$2,100.00	$6,300.00
CCTV Mobilization	Each	0	0	$13,000.00	$0.00
CCTV Inspection (Including Zoom Camera)	Day Rate	184	46	$3,250.00	$747,500.00
Cleaning Mobilization	Each	1	0	$6,500.00	$6,500.00
Cleaning	Day Rate	16	4	$3,250.00	$65,000.00
Sonar Processing	Linear Foot	0	0	$3.50	$0.00
Elevated Manhole Access	Each	5	0	$650.00	$3,250.00
Traffic Control Rolling	Day	10	3	$1,500.00	$19,500.00
Traffic Control Lane Closure	Day	10	3	$2,100.00	$27,300.00
Not to Exceed Total Costs					$1,329,700.00

By:	By:
Title:	Title: Mountain Area and GIS Operations Manager *(If Contractor is a corporation, a partnership, or a joint venture, attach evidence of authority to sign.)*
Attest:	Attest:
Title:	Title: Senior Vice President
Address for giving notices:	Address for giving notices:
	License No.: (where applicable)

PROFESSIONAL SERVICES AGREEMENT

This professional services agreement has been modified for the City of Edmond and Edmond Public Works Authority requirements.

PROFESSIONAL SERVICES AGREEMENT

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PROFESSIONAL SERVICES AGREEMENT

This is an Agreement between **EDMOND PUBLIC WORKS AUTHORITY** (Owner) and Surveying And Mapping, LLC **SUBCONSULTANT** (Subconsultant). Owner's Project, of which Subconsultant Subconsultant's services under this Agreement are a part, is generally identified as **STORMWATER INFRASTRUCTURE SURVEY Phase I** (Project). Other terms used in this Agreement are defined in Article 7. Subconsultant 's services under this Agreement are generally identified as description of Subconsultant Subcontractor services.

Owner and Subconsultant further agree as follows:

ARTICLE 1—SERVICES OF SUBCONSULTANT

1.01 Scope

A. Subconsultant shall provide, or cause to be provided, the services set forth herein and in Exhibit A.

B. All phases of service will include Subconsultant Stormwater Infrastructure Surveying Services as shown in Exhibit A.

ARTICLE 2—OWNER'S RESPONSIBILITIES

2.01 Project Information

A. To the extent Owner has not already provided the following, or has new, additional, or revised information from that previously provided, Owner shall provide Subconsultant with information and data needed by Subconsultant in the performance of Basic and Additional Services, including Owner's:

1. design objectives and constraints;
2. space, capacity, and performance requirements;
3. flexibility and expandability needs;
4. design and construction standards;
5. budgetary limitations; and
6. any other available information pertinent to the Project including reports and data relative to previous designs, construction, or investigation at or adjacent to the Site.

B. Following Subconsultant 's assessment of initially-available Project information and data and upon Subconsultant 's request, Owner shall obtain, furnish, or otherwise make available (if necessary through retention of specialists or consultants) such additional Project-related information and data as is reasonably required to enable Subconsultant to complete its Basic and Additional Services; or, with consent of Subconsultant , Owner may authorize the Subconsultant to obtain or provide all or part of such additional information as Additional Services. Such additional information or data may include the following:

1. Property descriptions.
2. Zoning, deed, and other land use restrictions.
3. Surveys, topographic mapping, and utility documentation.

4. Property, boundary, easement, right-of-way, and other special surveys or data, including establishing relevant reference points.

5. Explorations and tests of subsurface conditions at or adjacent to the Site; geotechnical reports and investigations; drawings of physical conditions relating to existing surface or subsurface structures at the Site; hydrographic surveys, laboratory tests and inspections of samples, materials, and equipment; appropriate professional interpretation of such information or data.

6. Environmental assessments, audits, investigations, and impact statements, and other relevant environmental, historical, or cultural studies relevant to the Project, the Site, and adjacent areas.

7. Data or consultations as required for the Project but not otherwise identified in this Agreement.

C. Owner shall examine all alternative solutions, studies, reports, sketches, Drawings, Specifications, proposals, and other documents presented by Subconsultant (including obtaining advice of an attorney, risk manager, insurance counselor, financial/municipal advisor, and other advisors or consultants as Owner deems appropriate with respect to such examination) and render in writing timely decisions pertaining thereto.

D. Owner shall furnish to Subconsultant data as to Owner's anticipated costs for services to be provided to Owner by others (including, but not limited to, accounting, bond and financial, independent cost estimating, insurance counseling, and legal advice) so that Subconsultant may assist Owner in collating the various cost categories that comprise Total Project Costs.

E. Owner shall advise Subconsultant if any invention, process, product, or device that Owner has requested, required, or recommended for inclusion in the Drawings or Specifications will be subject to payment (whether by Owner or Contractor) of any license fee or royalty to others, as required by patent rights or copyrights.

F. Owner shall inform Subconsultant as to whether Subconsultant 's assistance is requested with respect to Owner's evaluation of the possible use of Project Strategies, Technologies, and Techniques, as defined in Exhibit A.

G. Owner shall inform Subconsultant as to whether Subconsultant 's assistance is requested in identifying opportunities for enhancing the sustainability of the Project.

2.02 Owner's Instructions Regarding Bidding/Proposal Documents

A. Owner shall give instructions to Subconsultant regarding Owner's procurement of construction services (including instructions regarding advertisements for bids, instructions to bidders, and requests for proposals, as applicable) and Owner's construction contract practices and requirements, and furnish to Subconsultant (or give specific directions requesting Subconsultant to use copies already in Subconsultant 's possession) the following:

1. Owner's standard contract forms, general conditions (if other than the current edition of EJCDC® C-700, Standard General Conditions of the Construction Contract), supplementary conditions, text, and related documents and content for Subconsultant to include in the draft Bidding/Proposal Documents, and in draft Front-End Construction Contract Documents;

2. insurance requirements;

3. protocols for electronic transmittals during bidding and construction;
4. Owner's safety and security programs applicable to Contractor and other Constructors;
5. diversity and other social responsibility requirements;
6. bidding and contract requirements of funding, financing, or regulatory entities;
7. other specific conditions applicable to the procurement of construction or contract documents;
8. Reserved.

.

2.03 Owner-Furnished Services

A. Recognizing and acknowledging that Subconsultant 's services and expertise do not include the following services, Owner shall obtain, as required for the Project:

1. Accounting, bond and financial advisory services (including, if applicable, "municipal advisor" services as described in Section 975 of the Dodd-Frank Wall Street Reform and Consumer Protection Act (2010) and the municipal advisor registration rules issued by the Securities and Exchange Commission), independent cost estimating, and insurance counseling services.
2. Legal services, including attorney review of proposed Construction Contract Documents, legal services required by Owner, legal services needed as a result of issues raised by Contractor, and Project-related legal services reasonably requested by Subconsultant .
3. Auditing services, including those needed by Owner to ascertain how or for what purpose Contractor has used money paid to it.

B. Owner shall provide the services of an independent testing laboratory to perform all inspections, tests, and approvals of samples, materials, and equipment required by the Construction Contract Documents (other than those required to be furnished or arranged by Contractor), or to evaluate the performance of materials, equipment, and facilities of Owner, prior to their incorporation into the Work with appropriate professional interpretation thereof. Owner shall provide Subconsultant with the findings and reports generated by testing laboratories, including findings and reports obtained from or through Contractor.

C. Owner shall acquire or arrange for acquisition of the Site(s) and any temporary or permanent rights of access, easements, or property rights needed for the Project.

D. With respect to the portions or phases of the Project designed or specified by Subconsultant , Owner shall provide, obtain, or arrange for:

1. all required reviews, approvals, consents, and permits from governmental authorities having jurisdiction, and
2. such reviews, approvals, and consents from others as may be necessary for completion of each portion or phase of the Project.

E. Owner may delegate to Contractor or others the responsibilities set forth in Paragraphs 2.03.C and D.

2.04 Owner's General Responsibilities

A. Owner shall inform Subconsultant of the policies, procedures, and requirements of Owner that are applicable to Subconsultant 's performance of services under this Agreement.

B. Owner shall provide Subconsultant with Owner's budget for the Project, including type and source of funding to be used, and will promptly inform Subconsultant if the budget or funding sources change.

C. Owner shall inform Subconsultant in writing of any safety or security programs that are applicable to the personnel of Subconsultant , its Subconsultants, and Subconsultant 's Subcontractors, as they visit the Site or otherwise perform services under this Agreement.

D. Owner shall arrange for safe access to and make all provisions for Subconsultant to enter upon public and private property as required for Subconsultant to perform services under this Agreement.

E. Owner shall provide necessary direction and make decisions, including prompt review of Subconsultant 's submittals, and carry out its other responsibilities in a timely manner so as not to delay Subconsultant 's performance of its services.

F. Owner shall be responsible for all requirements and instructions that it furnishes to Subconsultant pursuant to this Agreement, and for the accuracy and completeness of all programs, reports, data, and other information furnished by Owner to Subconsultant pursuant to this Agreement. Subconsultant may use and rely upon such requirements, programs, instructions, reports, data, and information in performing or furnishing services under this Agreement, subject to any express limitations or reservations applicable to the furnished items.

G. Owner shall give prompt written notice to Subconsultant whenever Owner observes or otherwise becomes aware of:

   1. any development that affects the scope or time of performance of Subconsultant 's services;

   2. the presence at the Site of any Constituent of Concern; or

   3. any relevant, material defect or nonconformance in: (a) Subconsultant 's services, (b) the Work, (c) the performance of any Constructor, or (d) Owner's performance of its responsibilities under this Agreement.

H. Owner shall advise Subconsultant of the identity and scope of services of any independent consultants employed by Owner to perform or furnish services in regard to the Project, including, but not limited to, cost estimating, project peer review, value Subconsultant ing, and constructability review.

I. If Owner designates a construction manager, site representative, or any individual or entity other than, or in addition to, Subconsultant to represent Owner at the Site, Owner shall define and set forth as an exhibit to this Agreement the duties, responsibilities, and limitations of authority of such other party and the relation thereof to the duties, responsibilities, and authority of Subconsultant .

J. Owner shall:

   1. Attend and participate in the pre-bid conference, bid opening, pre-construction conferences, construction progress and other job-related meetings, and Site

visits to determine Substantial Completion and readiness of the completed Work for final payment.

2. Primarily communicate with Subconsultant 's Subcontractors and Subconsultants through the Subconsultant .

   a. Promptly inform Subconsultant of the substance of any communications between Owner and Subconsultant 's Subcontractors or Subconsultants.

   b. Refrain from directing the services of Subconsultant 's Subcontractors or Subconsultants.

3. Authorize Subconsultant to provide Additional Services as set forth in Article 2 of Exhibit A of the Agreement, as required.

4. Perform or provide the following:

   a. None.

2.05 Payment

A. Owner shall pay Subconsultant as set forth in Article 4 and Exhibit E.

B. Subconsultant 's compensation shall not exceed **$993,652.70** is summarized as follows; if there is a conflict between the following summary and the contents of Exhibit E, then Exhibit E will prevail.

Task	Unit of Measure	Est. Qty.	Additional Coverage (20%)	Unit Price	Extended Price
Monuments	Each	2		$5,500.00	$11,000.00
Stormwater Structures	Each	2540	508	$101.50	$309,372.00
Stormwater Channels	Each	577	116	$92.00	$63,756.00
Detention / Retention Basins	Each	82	17	$275.50	$27,274.70
CCTV Integration	Each	1		$14,400.00	$14,400.00
Traffic Control Rolling	Day	7		$1,500.00	$10,500.00
CCTV Mobilization	Each	1		$13,000.00	$13,000.00
CCTV Inspection (Including Zoom Camera)	Day Rate	90	18	$3,250.00	$351,000.00

Cleaning Mobilization	Each	1		$6,500.00	$6,500.00
Cleaning	Day Rate	15	3	$3,250.00	$58,500.00
Sonar Processing	Linear Foot	3,000	600	$3.50	$12,600.00
Elevated Manhole Access	Each	5		$650.00	$3,250.00
Traffic Control Rolling	Day	5		$1,500.00	$7,500.00
Traffic Control Lane Closure	Day	50		$2,100.00	$105,000.00
Not to Exceed Total Costs					**$993,652.70**

1. Lump sum amounts incorporate Subconsultant ’s labor, overhead, profit, and Subconsultant ’s Subcontractor and Subconsultants’ charges.

ARTICLE 3—SCHEDULE FOR RENDERING SERVICES

3.01 Commencement

A. Subconsultant is authorized to begin rendering services as of the Effective Date.

3.02 Time for Completion

A. Subconsultant shall complete its obligations within a reasonable time. Specific periods of time for rendering services, or specific dates by which services are to be completed, are provided in Exhibit B, and are hereby agreed to be reasonable. The Subconsultant shall conduct the Scope of Services in accordance with the schedule provided in Exhibit C.

B. If, through no fault of Subconsultant , such periods of time or dates are changed, or the orderly and continuous progress of Subconsultant ’s services is impaired, or Subconsultant ’s services are delayed or suspended, then the time for completion of Subconsultant ’s services, and the rates and amounts of Subconsultant ’s compensation, will be adjusted equitably.

C. If Owner authorizes changes in the scope, extent, or character of the Project or Subconsultant ’s services, then the time for completion of Subconsultant ’s services, and the rates and amounts of Subconsultant ’s compensation, will be adjusted equitably.

D. If Subconsultant fails, for reasons within control of Subconsultant , to complete the performance required in this Agreement within the time set forth, as duly adjusted, then Owner shall be entitled, as its sole remedy, to the recovery of direct damages to the extent, if any, resulting from such failure by Subconsultant .

ARTICLE 4—INVOICES AND PAYMENTS

4.01 Invoices

A. Preparation and Submittal of Invoices: Subconsultant shall prepare invoices in accordance with its standard invoicing practices, the progress reporting and special invoicing requirements in Exhibit A, and the terms of Exhibit E. Subconsultant shall submit its invoices to Owner on a monthly basis. Invoices are due and payable within 30 days of receipt.

4.02 Payments

A. Disputed Invoices: If Owner disputes an invoice, either as to amount or entitlement, then Owner shall promptly advise Subconsultant in writing of the specific basis for doing so; may withhold only that portion so disputed; and must pay the undisputed portion, subject to the terms of Paragraph 4.01. After a disputed item has been resolved, Subconsultant shall include the agreed-upon amount on a new invoice.

B. Failure to Pay: If Owner fails to make any undisputed payment due Subconsultant within 30 days after receipt of Subconsultant ’s invoice, then:

1. amounts due Subconsultant will be increased at the rate of 1.5% per month (or the maximum rate of interest permitted by law, if less) from said thirtieth day, and

2. Subconsultant may, after giving 7 days’ written notice to Owner, suspend services under this Agreement until Owner has paid in full amounts due. Owner waives any and all claims against Subconsultant for any such suspension.

C. Sales or Use Taxes: If after the Effective Date any governmental entity takes an action that imposes additional sales or use taxes on Subconsultant ’s services or compensation under this Agreement, then Subconsultant may invoice such additional sales or use taxes for reimbursement by Owner. Owner shall reimburse Subconsultant for the cost of such invoiced additional sales or use taxes; such reimbursement will be in addition to the compensation to which Subconsultant is entitled under the terms of Exhibit E.

D. Payment method: All payments to the Subconsultant under this agreement shall be made exclusively through ACH (Automated Clearing House) direct deposit. The Subconsultant agrees to provide the necessary banking information, including account number, routing number, and any other details required to facilitate ACH direct deposits. The Subconsultant is responsible for ensuring that the banking information provided is accurate and up to date. Any delays or errors in payment caused by incorrect or outdated information provided by the Subconsultant shall not be the responsibility of the Owner.

ARTICLE 5—GENERAL CONSIDERATIONS

5.01 Standards of Performance

A. Standard of Care: The standard of care for all professional Subconsultant ing and related services performed or furnished by Subconsultant under this Agreement will be the care and skill ordinarily used by members of the subject profession practicing under similar circumstances at the same time and in the same locality. Subconsultant makes no warranties, express or implied, under this Agreement or otherwise, in connection with any services performed or furnished by Subconsultant .

B. Technical Accuracy: Owner shall not be responsible for discovering deficiencies in the technical accuracy of Subconsultant ’s services. Subconsultant shall correct deficiencies in technical accuracy without additional compensation, unless such corrective action is directly attributable to deficiencies in Owner-furnished information.

C. Subconsultant ’s Subcontractors and Subconsultants: Subconsultant may retain such Subconsultant ’s Subcontractors and Subconsultants as Subconsultant deems necessary to assist in the performance or furnishing of the services, subject to reasonable, timely, and substantive objections by Owner.

D. Reliance on Others: Subject to the standard of care set forth in Paragraph 5.01.A, Subconsultant may use or rely upon design elements and information ordinarily or customarily furnished by others, including, but not limited to, specialty contractors, manufacturers, suppliers, and the publishers of technical standards.

E. Compliance with Laws and Regulations, and Policies and Procedures

1. Subconsultant and Owner shall comply with applicable Laws and Regulations.

2. Subconsultant shall comply with the policies, procedures, and instructions of Owner that are applicable to Subconsultant 's performance of services under this Agreement and that Owner provides to Subconsultant in writing, subject to the standard of care set forth in Paragraph 5.01.A, and to the extent compliance is not inconsistent with professional practice requirements.

3. This Agreement is based on Laws and Regulations and Owner-provided written policies and procedures as of the Effective Date. The following may be the basis for modifications to Owner’s responsibilities or to Subconsultant ’s scope of services, times of performance, or compensation:

   a. changes after the Effective Date to Laws and Regulations,

   b. the receipt by Subconsultant after the Effective Date of Owner-provided written policies and procedures, and

   c. changes after the Effective Date to Owner-provided written policies or procedures.

F. Reserved.

G. Copies of Drawings and Specifications: If Subconsultant is required to prepare or furnish Drawings or Specifications under this Agreement, Subconsultant shall deliver to Owner at least one complete electronic copy of such Drawings and Specifications, signed according to applicable Laws and Regulations, and one complete printed copy, and duly signed .

H. Subconsultant shall not be required to sign any document, no matter by whom requested, that would result in Subconsultant having to certify, guarantee, or warrant conditions whose existence Subconsultant cannot ascertain within the authorized scope of Subconsultant ’s services. Owner agrees not to make resolution of any dispute with Subconsultant or payment of any amount due to Subconsultant in any way contingent upon Subconsultant signing any such document.

I. Subconsultant shall not at any time supervise, direct, control, or have authority over any Constructor’s work, nor will Subconsultant have authority over or be responsible for the means, methods, techniques, sequences, or procedures of construction selected or used by any Constructor, or the safety precautions and programs incident thereto, for security or safety at the Site, nor for any failure of a Constructor to comply

with Laws and Regulations applicable to that Constructor's furnishing and performing of its work. Subconsultant shall not be responsible for the acts or omissions of any Constructor.

J. Subconsultant neither guarantees the performance of any Constructor nor assumes responsibility for any Constructor's failure to furnish and perform the Work in accordance with the Construction Contract Documents.

K. Subconsultant shall not be responsible for any decision made regarding the Construction Contract Documents, or any application, interpretation, clarification, or modification of the Construction Contract Documents, other than those made by Subconsultant .

L. Subconsultant is not required to provide and does not have any responsibility for surety bonding or insurance-related advice, recommendations, counseling, or research, or enforcement of construction insurance or surety bonding requirements.

M. Subconsultant 's services do not include providing legal advice or representation.

N. Subconsultant 's services do not include (1) serving as a "municipal advisor" for purposes of the registration requirements of Section 975 of the Dodd-Frank Wall Street Reform and Consumer Protection Act (2010) or the municipal advisor registration rules issued by the Securities and Exchange Commission, or (2) advising Owner, or any municipal entity or other person or entity, regarding municipal financial products or the issuance of municipal securities, including advice with respect to the structure, timing, terms, or other similar matters concerning such products or issuances.

O. While at the Site, Subconsultant , its Subconsultants, and Subconsultant 's Subcontractors, and their employees and representatives will comply with the applicable requirements of Contractor's and Owner's safety programs of which Subconsultant has been informed in writing.

5.02 Ownership and Use of Documents

A. All Documents are instruments of service, and Subconsultant owns the Documents, including all associated copyrights and the right of reuse at the discretion of the Subconsultant , subject to the following provisions:

1. Upon receipt by Subconsultant of full payment due and owing for all services relating to preparation of the Documents and subject to the express exclusions that follow, Subconsultant and any Subconsultants will grant to Owner the ownership of the Documents, including all associated copyrights and the right of reuse.

2. When requested by Owner, Subconsultant will perform any clerical or administrative acts reasonably necessary to confirm or record the transfer of Subconsultant 's interests in the Documents to the Owner, and Owner will reimburse the Subconsultant for its costs to comply with the transfer request.

3. Subconsultant shall have and retain the ownership, title, and property rights, including copyright, patent, intellectual property, and common law rights, in any design elements (including but not limited to standard details, drawings, plans, specifications, methodologies, and Subconsultanting computations) used in the Documents, but developed by Subconsultant or its Subconsultants previous to or independent of this Agreement ("Previously/Independently Created Works").

Subconsultant shall provide appropriate verification of such previous or independent development upon Owner's request.

4. Upon receipt by Subconsultant of full payment due and owing for all services relating to preparation of the Documents, Subconsultant will issue to Owner a royalty-free, nonexclusive and irrevocable license to use such Previously/Independently Created Works on the Project or on any extension of the Project.
5. Owner acknowledges that the Documents are not intended or represented to be suitable for use on the Project unless completed by Subconsultant , or for use or reuse by Owner or others on extensions of the Project, on any other project, or for any other use or purpose, without written verification or adaptation by Subconsultant .
6. Any such use or reuse, or any modification of the Documents, without written verification, completion, or adaptation by Subconsultant , as appropriate for the specific purpose intended, will be at Owner's sole risk and without liability or legal exposure to Subconsultant or to its officers, directors, members, partners, agents, employees, and Consultants.
7. Owner shall indemnify and hold harmless Subconsultant and its officers, directors, members, partners, agents, employees, and Subconsultants from all claims, damages, losses, and expenses, including attorneys' fees, arising out of or resulting from any use, reuse, or modification of the Documents without written verification, completion, or adaptation by Subconsultant .
8. Such limited license to Owner shall not create any rights in third parties.
9. Nothing herein limits the Subconsultant 's right of use or reuse of Previously/Independently Created Works or any of Subconsultant 's non-Document work product.

B. If Subconsultant at Owner's request verifies the suitability of the Documents, completes them, or adapts them for extensions of the Project or for any other purpose, then Owner shall compensate Subconsultant at rates or in an amount to be agreed upon by Owner and Subconsultant .

C. Subconsultant shall inform Owner if Subconsultant is aware of any invention, design, process, product, or device specified in the Drawings, Specifications, or other Documents that is subject to payment (whether by Owner or Contractor) of any license fee or royalty to others, as required by patent rights or copyrights. If Subconsultant 's good-faith inclusion in the Drawings, Specifications, or other Documents of new, innovative, or non-standard technologies, for the benefit of Owner and the Project, results in third-party claims of infringement or violation of intellectual property rights, then Owner and Subconsultant shall share equally the costs of defending against, settling, or paying such claims.

D. Subconsultant will obtain Owner's consent, which will not be unreasonably withheld, prior to releasing any publicity, including news and press releases, promotional publications, award and prize competition submittals, and other advertising regarding the subject matter of this Agreement. Nothing herein will limit the Subconsultant 's right to include information in statements of qualifications and proposals to others accurately describing its participation and participation of employees in the Project.

5.03 Electronic Transmittals

A. To the fullest extent practical, Owner and Subconsultant agree to transmit, and accept, Project-related correspondence, Documents, text, data, drawings, information, and graphics, in electronic media or digital format, either directly, or through access to a secure Project website.

B. If this Agreement does not include Exhibit F or otherwise does not establish or include protocols for transmittal of Electronic Documents by Electronic Means, then Owner and Subconsultant may operate without specific protocols or may jointly develop such protocols at a later date.

C. When transmitting Electronic Documents by Electronic Means, the transmitting party makes no representations as to long term compatibility, usability, or readability of the Electronic Documents resulting from the recipient's use of software application packages, operating systems, or computer hardware differing from those used in the drafting or transmittal of the Electronic Documents, or from those established in applicable protocols.

D. This Agreement is not intended to create obligations for Owner or Subconsultant with respect to transmittals to or from third parties, except as expressly stated in the EDP.

5.04 Insurance

A. Subconsultant shall procure and maintain insurance as set forth in Exhibit D.

B. Additional Insureds: The Subconsultant 's commercial general liability, automobile liability, and umbrella or excess liability policies, must:

1. include and list as additional insureds Owner, and any individuals or entities identified as additional insureds in Exhibit D;

2. include coverage for the respective officers, directors, members, partners, and employees of all such additional insureds;

3. afford primary coverage to these additional insureds for all claims covered thereby (including as applicable those arising from both ongoing and completed operations); and

4. not seek contribution from insurance maintained by the additional insured.

C. Owner shall require Contractor to purchase and maintain policies of insurance covering workers' compensation, general liability, motor vehicle damage and injuries, and other insurance necessary to protect Owner's and Subconsultant 's interests in the Project. Owner shall require Contractor to cause Subconsultant , its Subconsultants, and Subconsultant 's Subcontractors to be listed as additional insureds with respect to such liability insurance purchased and maintained by Contractor for the Project. Owner shall give Subconsultant access to any certificates of insurance and copies of endorsements and policies obtained by Owner from Contractor.

D. Owner and Subconsultant shall each deliver to the other certificates of insurance evidencing the coverages indicated in Exhibit D. Such certificates must be furnished prior to commencement of Subconsultant 's services and at renewals thereafter during the life of the Agreement.

1. Upon request by Owner or any other insured, Subconsultant shall also furnish other evidence of such required insurance, including but not limited to copies of

policies and endorsements, documentation of applicable self-insured retentions (if allowed) and deductibles, full disclosure of all relevant exclusions, and evidence of insurance required to be purchased and maintained by Subconsultants and Subconsultant 's Subcontractors. In any documentation furnished under this provision, Subconsultant may redact (a) any confidential premium or pricing information and (b) any wording specific to projects or jurisdictions other than those applicable to this Agreement.

E. All construction contracts entered into by Owner with respect to the Project must require builder's risk or similar property insurance.

F. All policies of property insurance relating to the Project, including but not limited to any builder's risk or similar policy, must allow for waiver of subrogation rights and contain provisions to the effect that in the event of payment of any loss or damage the insurers will have no rights of recovery against any insured thereunder or against Subconsultant , its Subconsultants, or Subconsultant 's Subcontractors. Owner and Subconsultant waive all rights against each other, Contractor, Subconsultant 's Subcontractors and Subconsultants, and the respective officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them, for all losses and damages caused by, arising out of, or resulting from any of the perils or causes of loss covered by any such builder's risk or similar policy and any other property insurance relating to the Project. Owner and Subconsultant shall take appropriate measures in other Project-related contracts to secure waivers of rights consistent with those set forth in this paragraph.

G. All policies of insurance must contain a provision or endorsement that the coverage afforded will not be canceled, and that renewal will not be refused, until at least 20 days' prior written notice has been given to the primary insured. Upon receipt of such notice, the primary insured must promptly forward a copy of the notice to the other party to this Agreement and replace the coverage being cancelled or reduced to conform to the requirements of this Agreement.

H. At any time, Owner may request that Subconsultant , or Subconsultant 's Subcontractors or Subconsultants, at Owner's sole expense, provide additional insurance coverage, increased limits, or revised deductibles that are more protective than those specified in Exhibit D. If so requested by Owner, and if commercially available, Subconsultant shall obtain and shall require Subconsultant 's Subcontractors or Subconsultants to obtain such additional insurance coverage, different limits, or revised deductibles for such periods of time as requested by Owner, and Exhibit D will be supplemented to incorporate these requirements.

5.05 Suspension and Termination

A. Suspension

1. By Owner: Owner may suspend Subconsultant 's services for up to 90 days upon 7 days' written notice to Subconsultant .

2. By Subconsultant : Subconsultant may, after giving 7 days' written notice to Owner, suspend services under this Agreement:

a. if Owner has failed to pay Subconsultant for invoiced services and expenses, as set forth in Paragraphs 4.02.B and 4.02.C;

b. in response to the presence of Constituents of Concern at the Site, as set forth in Paragraph 5.09.D; or

c. if persistent circumstances beyond the control of Subconsultant have prevented it from performing its obligations under this Agreement.

B. Termination for Cause

1. Either party may terminate the Agreement for cause upon 30 days' written notice in the event of substantial failure by the other party to perform in accordance with the terms of the Agreement, through no fault of the terminating party.

a. Notwithstanding the foregoing, this Agreement will not terminate under Paragraph 6.05.B.1 if the party receiving such notice begins, within 7 days of receipt of such notice, to correct its substantial failure to perform and proceeds diligently to cure such failure within no more than 30 days of receipt thereof; provided, however, that if and to the extent such substantial failure cannot be reasonably cured within such 30-day period, and if such party has diligently attempted to cure the same and thereafter continues diligently to cure the same, then the cure period provided for herein will extend up to, but in no case more than, 60 days after the date of receipt of the notice.

2. In addition to its termination rights in Paragraph 5.05.B.1, Subconsultant may terminate this Agreement for cause upon 7 days' written notice:

a. if Owner demands that Subconsultant furnish or perform services contrary to Subconsultant 's responsibilities as a licensed professional.

b. if Subconsultant 's services for the Project are delayed or suspended for more than 90 days for reasons beyond Subconsultant 's control; or

c. as the result of the presence at or adjacent to the Site of undisclosed Constituents of Concern, as set forth in Paragraph 5.09.E.

3. Subconsultant will have no liability to Owner on account of any termination by Subconsultant for cause.

C. Termination for Convenience: Owner may terminate this Agreement for convenience, effective upon Subconsultant 's receipt of notice from Owner.

D. Extension of Effective Date of Termination: If Owner terminates the Agreement for cause or convenience, Owner may set the effective date of termination at a time up to 30 days later than otherwise provided to allow Subconsultant to demobilize personnel and equipment from the Site, to complete tasks whose value would otherwise be lost, to prepare notes as to the status of completed and uncompleted tasks, and to assemble Project materials in orderly files.

E. Payments Upon Termination: In the event of any termination under Paragraph 6.05, Subconsultant will be entitled to invoice Owner and to receive full payment for all services performed or furnished in accordance with this Agreement and all reimbursable expenses incurred through the effective date of termination. Upon making such payment, Owner will have the limited right to the use of Documents, at Owner's sole risk, subject to the provisions of Paragraph 5.02.A.

1. If Owner has terminated the Agreement for cause and disputes Subconsultant 's entitlement to compensation for services and reimbursement of expenses, then Subconsultant 's entitlement to payment and Owner's rights to the use of the Documents will be resolved in accordance with the dispute resolution provisions of this Agreement or as otherwise agreed in writing.

5.06 Successors, Assigns, and Beneficiaries

A. Owner and Subconsultant are hereby bound and the successors, executors, administrators, and legal representatives of Owner and Subconsultant (and to the extent permitted by Paragraph 5.06.B the assigns of Owner and Subconsultant) are hereby bound to the other party to this Agreement and to the successors, executors, administrators and legal representatives (and said assigns) of such other party, in respect of all covenants, agreements, and obligations of this Agreement.

B. Neither Owner nor Subconsultant may assign, sublet, or transfer any rights under or interest (including, but without limitation, claims arising out of this Agreement or money that is due or may become due) in this Agreement without the written consent of the other party, except to the extent that any assignment, subletting, or transfer is mandated by law. Unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under this Agreement.

C. Unless expressly provided otherwise in this Agreement:

1. All duties and responsibilities undertaken pursuant to this Agreement will be for the sole and exclusive benefit of Owner and Subconsultant and not for the benefit of any other party.

2. Nothing in this Agreement will be construed to create, impose, or give rise to any duty owed by Owner or Subconsultant to any Constructor, other third-party individual or entity, or to any surety for or employee of any of them.

3. Owner agrees that the substance of the provisions of this Paragraph 5.06.C will appear in the Construction Contract Documents.

5.07 Dispute Resolution

A. Owner and Subconsultant shall resolve all disputes in the following manner:

1. Owner and Subconsultant agree to negotiate all disputes between them in good faith for a period of 30 days from the date of notice, prior to invoking mediation.

2. If the parties fail to resolve a Dispute through negotiations under Paragraph 5.07.A.1, then the parties may exercise their rights at law.

5.08 Controlling Law; Venue

A. This Agreement is to be governed by the Laws and Regulations of the state in which the Project is located.

B. Venue for any exercise of rights at law will be the District Court of Oklahoma County.

5.09 Environmental Condition of Site

A. Owner represents to Subconsultant that, as of the Effective Date, to the best of Owner's knowledge, no Constituents of Concern, other than those disclosed in writing to Subconsultant , exist at or adjacent to the Site.

B. Undisclosed Constituents of Concern: For purposes of this Paragraph 5.09, the presence at or adjacent to the Site of Constituents of Concern that were not disclosed to Subconsultant pursuant to Paragraph 5.09.A, in such quantities or circumstances that such Constituents of Concern may present a danger to persons or property exposed to them, will be referred to as "undisclosed" Constituents of Concern.

1. The presence at the Site of materials that are necessary for the execution of the Work, or that are to be incorporated in the Work, and that are controlled and contained pursuant to industry practices, Laws and Regulations, and the requirements of this Agreement or the Construction Contract, are not undisclosed Constituents of Concern.
2. Constituents of Concern that are to be located, identified, studied, removed, or remediated as part of the services under this Agreement are not undisclosed Constituents of Concern.
3. Constituents of Concern that are to be located, identified, studied, removed, or remediated as part of the services under another professional services contract for Owner, or as part of the work under a construction or remediation contract, are not undisclosed Constituents of Concern if Subconsultant has been informed of the general scope of such contract.

C. If Subconsultant encounters or learns of an undisclosed Constituent of Concern at the Site, then Subconsultant shall notify (1) Owner and (2) appropriate authorities having jurisdiction if Subconsultant reasonably concludes that doing so is required by applicable Laws or Regulations.

D. It is acknowledged by both parties that Subconsultant ’s scope of services does not include any services related to undisclosed Constituents of Concern. If Subconsultant or any other party encounters, uncovers, or reveals an undisclosed Constituent of Concern, or if encountered, uncovered, or revealed Constituents of Concern are present in substantially greater quantities or substantially different locations than disclosed or anticipated, or if investigative or remedial action, or other professional services, are necessary or required by applicable Laws and Regulations with respect to such Constituents of Concern, then Subconsultant may, at its option and without liability for direct, consequential, or any other damages, suspend performance of services on the portion of the Project adversely affected thereby until such portion of the Project is no longer so affected; and Owner shall promptly determine whether to retain a qualified expert to evaluate such condition or take any necessary corrective action.

E. If the presence at the Site of undisclosed Constituents of Concern, or of Constituents of Concern in substantially greater quantities or in substantially different locations than disclosed or anticipated, adversely affects the performance of Subconsultant ’s services under this Agreement, then:

1. if the adverse effects do not preclude Subconsultant from completing its Project services in general accordance with this Agreement on unaffected or marginally affected portions of the Project, Subconsultant may accept an equitable adjustment in its compensation or in the time of completion, or both; and the Agreement will be amended to reflect changes necessitated by the presence of such Constituents of Concern; or
2. if the adverse effects are of such materiality to the overall performance of Subconsultant that it cannot complete its services without significant changes to the scope of services, time of completion, and compensation, then Subconsultant may terminate this Agreement for cause on 7 days’ written notice.

F. Owner acknowledges that Subconsultant is performing professional services for Owner and that Subconsultant is not and will not be required to become an "owner," “arranger,” “operator,” “generator,” or “transporter” of hazardous substances, as

defined in the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended, which are or may be encountered at or near the Site in connection with Subconsultant 's activities under this Agreement.

5.10 Indemnification and Mutual Waiver

A. Indemnification by Subconsultant : To the fullest extent permitted by Laws and Regulations, Subconsultant shall indemnify and hold harmless Owner, and Owner's officers, directors, members, partners, agents, and employees, from losses, damages, and judgments (including reasonable attorneys' fees and actual expenses) arising from third-party claims or actions relating to the Subconsultant services, provided that any such claim, action, loss, damages, or judgment is attributable to bodily injury, sickness, disease, or death, or to injury to or destruction of tangible property (other than the Work itself), to the extent caused by any negligent act or omission of Subconsultant or Subconsultant 's officers, directors, members, partners, agents, employees, Subconsultants, or Subconsultant 's Subcontractors in it's performance of services under this Agreement.

B. Environmental Indemnification: To the fullest extent permitted by Laws and Regulations, Owner shall indemnify and hold harmless Subconsultant , its Subconsultants, Subconsultant 's Subcontractors, and their officers, directors, members, partners, agents, employees, and subconsultants from all claims, costs, losses, damages, actions, and judgments (including reasonable consultants' and attorney's fees and expenses) caused by, arising out of, relating to, or resulting from a Constituent of Concern at, on, or under the Site, provided that:

1. any such claim, cost, loss, damages, action, or judgment is attributable to bodily injury, sickness, disease, or death, or to injury to or destruction of tangible property (other than the Work itself), including the loss of use resulting therefrom, and

2. nothing in this paragraph obligates Owner to indemnify any individual or entity from and against the consequences of that individual's or entity's own negligence or willful misconduct.

C. Percentage Share of Negligence: To the fullest extent permitted by Laws and Regulations, a party's total liability to the other party and anyone claiming by, through, or under the other party for any cost, loss, or damages caused in part by the negligence of the party and in part by the negligence of the other party or any other negligent entity or individual, will not exceed the percentage share that the party's negligence bears to the total negligence of Owner, Subconsultant , and all other negligent entities and individuals.

D. Mutual Waiver: To the fullest extent permitted by Laws and Regulations, Owner and Subconsultant waive against each other, and the other's officers, directors, members, partners, agents, employees, subconsultants, and insurers, any and all claims for or entitlement to special, incidental, indirect, or consequential damages arising out of, resulting from, or in any way related to this Agreement or the Project, from any cause or causes. Such excluded damages include but are not limited to loss of profits or revenue; loss of use or opportunity; loss of good will; cost of substitute facilities, goods, or services; and cost of capital.

E. Limitation of Liability: Subconsultant's total aggregate liability to Client and all third parties, whether in contract, tort (including negligence), or otherwise arising out of or a related to the services performed under this Agreement, shall be limited to the proceeds

actually recovered by Subconsultant from its applicable insurance policies and within the limits of coverage required under this Agreement. In no event shall Subconsultant be liable for any indirect, incidental, consequential, special, exemplary, or punitive damages, including but not limited to loss of use, loss of profits, or loss of data, even if Subconsultant has been advised of the possibility of such damages

5.11 Records Retention

A. Subconsultant shall maintain on file in legible form, for a period of five years following completion or termination of its services, or such other period as required by Laws and Regulations, all Documents, records (including cost records), and design calculations related to Subconsultant 's services or pertinent to Subconsultant 's performance under this Agreement. Upon Owner's request, Subconsultant shall provide a copy of any such item to Owner at cost.

5.12 Miscellaneous Provisions

A. Notices: Any notice required under this Agreement will be in writing and delivered: in person (by commercial courier or otherwise); by registered or certified mail; or by e-mail to the recipient, with the words "Formal Notice" or similar in the e-mail's subject line. All such notices are effective upon the date of receipt.

B. Survival: Subject to applicable Laws and Regulations, all express representations, waivers, indemnifications, and limitations of liability included in this Agreement will survive its completion or termination for any reason.

C. Severability: Any provision or part of the Agreement held to be void or unenforceable under any Laws or Regulations will be deemed stricken, and all remaining provisions will continue to be valid and binding upon Owner and Subconsultant .

D. No Waiver: A party's non-enforcement of any provision will not constitute a waiver of that provision, nor will it affect the enforceability of that provision or of the remainder of this Agreement.

E. Accrual of Claims: To the fullest extent permitted by Laws and Regulations, all causes of action arising under this Agreement will be deemed to have accrued, and all statutory periods of limitation will commence, no later than the date of Substantial Completion; or, if Subconsultant 's services do not include Construction Phase services, or the Project is not completed, then no later than the date of Owner's last payment to Subconsultant .

ARTICLE 6—DEFINITIONS

6.01 Defined Terms

A. Wherever used in this Agreement (including the exhibits hereto) terms (including the singular and plural forms) printed with initial capital letters have the meanings indicated in the text above, in the exhibits, or in the following definitions:

1. Addenda—Written or graphic instruments issued prior to the opening of bids which clarify, correct, or change the bidding requirements or the proposed Construction Contract Documents.

2. Additional Services—The services to be performed for or furnished to Owner by Subconsultant in accordance with Article 2 of Exhibit A of this Agreement.

3. Agreement—This written contract for professional services between Owner and Subconsultant , including all exhibits identified in Paragraph 8.01 and any duly executed amendments.

4. Application for Payment—The form acceptable to Subconsultant which is to be used by Contractor during the course of the Work in requesting progress or final payments and which is to be accompanied by such supporting documentation as is required by the Construction Contract.

5. Basic Services—The services to be performed for or furnished to Owner by Subconsultant in accordance with Article 1 of Exhibit A of this Agreement.

6. Bidding/Proposal Documents—Documents related to the selection of the Contractor, including advertisements or invitations to bid; requests for proposals; instructions to bidders or proposers, including any attachments such as lists of available Site-related documents; bid forms; bids; proposal forms; proposals; bidding requirements; and qualifications documents.

7. Change Order—A document which is signed by Contractor and Owner and authorizes an addition, deletion, or revision in the Work or an adjustment in the Construction Contract Price or the Construction Contract Times, or other revision to the Construction Contract, issued on or after the effective date of the Construction Contract.

8. Change Proposal—A written request by Contractor, duly submitted in compliance with the procedural requirements set forth in the Construction Contract, seeking an adjustment in Construction Contract Price or Construction Contract Times, or both; contesting an initial decision by Subconsultant concerning the requirements of the Construction Contract Documents or the acceptability of Work under the Construction Contract Documents; challenging a set-off against payments due; or seeking other relief with respect to the terms of the Construction Contract.

9. Constituents of Concern—Asbestos, petroleum, radioactive materials, polychlorinated biphenyls (PCBs), lead-based paint (as defined by the HUD/EPA standard), hazardous waste, and any substance, product, waste, or other material of any nature whatsoever that is or becomes listed, regulated, or addressed pursuant to Laws and Regulations regulating, relating to, or imposing liability or standards of conduct concerning, any hazardous, toxic, or dangerous waste, substance, or material.

10. Construction Contract—The entire and integrated written contract between Owner and Contractor concerning the Work.

11. Construction Contract Documents—Those items designated as “Contract Documents” in the Construction Contract, and which together comprise the Construction Contract. See also definition of “Front-End Construction Contract Documents” below.

12. Construction Contract Price—The money that Owner has agreed to pay Contractor for completion of the Work in accordance with the Construction Contract Documents.

13. Construction Contract Times—The number of days or the dates by which Contractor must: (a) achieve milestones, if any, in the Construction Contract; (b) achieve Substantial Completion; and (c) complete the Work.

14. Construction Cost—The cost to Owner of the construction of those portions of the entire Project designed or specified by or for Subconsultant under this Agreement, including construction labor, services, materials, equipment, insurance, and bonding costs, and allowances for contingencies. Construction Cost does not include costs of services of Subconsultant or other design professionals and consultants; cost of land or rights-of-way, or compensation for damages to property; Owner's costs for legal, accounting, insurance counseling, or auditing services; interest or financing charges incurred in connection with the Project; or the cost of other services to be provided by others to Owner. Construction Cost is one of the items comprising Total Project Costs.

15. Constructor—Any person or entity (not including the Subconsultant , its employees, agents, representatives, or Subconsultants, or Subconsultant 's Subcontractors), performing or supporting construction activities relating to the Project, including but not limited to Contractors, Subcontractors, Suppliers, Owner's work forces, utility companies, other contractors, construction managers, design-builders, testing firms, shippers, and truckers, and the employees, agents, and representatives of any or all of them.

16. Contractor—The entity or individual with which Owner enters into a Construction Contract.

17. Documents—All documents expressly identified as deliverables in this Agreement, whether in printed or Electronic Document form, required by this Agreement to be provided or furnished by Subconsultant to Owner. Such specifically required deliverables may include, by way of example, Drawings, Specifications, data, reports, building information models, and civil integrated management models.

18. Drawings—That part of the Construction Contract Documents that graphically shows the scope, extent, and character of the Work to be performed by Contractor.

19. Effective Date—The date indicated in this Agreement on which it becomes effective, but if no such date is indicated, the date on which this Agreement is signed and delivered by the last of the parties to sign and deliver.

20. Electronic Document—Any Project-related correspondence, attachments to correspondence, data, documents, drawings, information, or graphics, including but not limited to Shop Drawings and other Submittals, that are in an electronic or digital format.

21. Electronic Means—Electronic mail (e-mail), upload/download from a secure Project website, or other communications methods that allow: (a) the transmission or communication of Electronic Documents; (b) the documentation of transmissions, including sending and receipt; (c) printing of the transmitted Electronic Document by the recipient; (d) the storage and archiving of the Electronic Document by sender and recipient; and (e) the use by recipient of the Electronic Document for purposes permitted by this Agreement. Electronic Means does not include the use of text messaging, or of Facebook, Twitter, Instagram, or similar social media services for transmission of Electronic Documents.

22. Subconsultant —The individual or entity named as such in this Agreement.

23. Subconsultant ’s Subcontractor—An individual, firm, vendor, or other entity having a contract with Subconsultant to furnish general services, equipment, or materials with respect to the Project as an independent contractor.

24. Field Order—A written order issued by Subconsultant which requires minor changes in the Work but does not change the Construction Contract Price or the Construction Contract Times.

25. Front-End Construction Contract Documents—Those Construction Contract Documents whose primary purpose is to establish legal and contractual terms and conditions, typically including the Owner-Contractor agreement, bonds, general conditions, and supplementary conditions. The term excludes the Drawings and Specifications, and any Construction Contract Documents delivered or issued after the effective date of the Construction Contract.

26. Laws and Regulations; Laws or Regulations—Any and all applicable laws, statutes, rules, regulations, ordinances, codes, and orders of any and all governmental bodies, agencies, authorities, and courts having jurisdiction.

27. Owner—The individual or entity named as such in this Agreement and for which Subconsultant 's services are to be performed. Unless indicated otherwise, this is the same individual or entity that will enter into any Construction Contracts concerning the Project.

28. Project—The total undertaking to be accomplished for Owner by Subconsultant s, contractors, and others, including planning, study, design, construction, testing, commissioning, and start-up, and of which the services to be performed or furnished by Subconsultant under this Agreement are a part.

29. Record Drawings—Drawings depicting the completed Project, or a specific portion of the completed Project, prepared by Subconsultant and based on Contractor's record copy of all Drawings, Specifications, Addenda, Change Orders, Work Change Directives, Field Orders, and written interpretations and clarifications, as delivered to Subconsultant and annotated by Contractor to show changes made during construction.

30. Resident Project Representative—The authorized representative of Subconsultant assigned to assist Subconsultant at the Site during the Construction Phase. As used herein, the term Resident Project Representative (RPR) includes any assistants or field staff of the RPR.

31. Samples—Physical examples of materials, equipment, or workmanship that are representative of some portion of the Work and that establish the standards by which such portion of the Work will be judged.

32. Shop Drawings—All drawings, diagrams, illustrations, schedules, and other data or information that are specifically prepared or assembled by or for Contractor and submitted by Contractor to illustrate some portion of the Work. Shop Drawings, whether approved or not, are not Drawings and are not Construction Contract Documents.

33. Site—Lands or areas to be indicated in the Construction Contract Documents as being furnished by Owner upon which the Work is to be performed, including rights-of-way and easements, and such other lands furnished by Owner which are designated for the use of Contractor.

34. Specifications—The part of the Construction Contract Documents that consists of written requirements for materials, equipment, systems, standards, and workmanship as applied to the Work, and certain administrative requirements and procedural matters applicable to the Work.

35. Subconsultant—An individual, design firm, consultant, or other entity having a contract with Subconsultant to furnish professional services with respect to the Project as an independent contractor.

36. Subcontractor—An individual or entity having a direct contract with Contractor or with any other Subcontractor for the performance of a part of the Work.

37. Submittal—A written or graphic document, prepared by or for Contractor, which the Construction Contract Documents require Contractor to submit to Subconsultant , or that is indicated as a Submittal in the Schedule of Submittals accepted by Subconsultant . Submittals may include Shop Drawings and Samples; schedules; product data; Owner-delegated designs; sustainable design information; information on special procedures; testing plans; results of tests and evaluations, source quality-control testing and inspections, and field or Site quality-control testing and inspections; warranties and certifications; Suppliers' instructions and reports; records of delivery of spare parts and tools; operations and maintenance data; Project photographic documentation; record documents; and other such documents required by the Construction Contract Documents. Submittals, whether or not approved or accepted by Subconsultant , are not Construction Contract Documents. Change Proposals, Change Orders, Claims, notices, Applications for Payment, and requests for interpretation or clarification are not Submittals.

38. Substantial Completion—The time at which the Work (or a specified part thereof) has progressed to the point where, in the opinion of Subconsultant , the Work (or a specified part thereof) is sufficiently complete, in accordance with the Construction Contract Documents, so that the Work (or a specified part thereof) can be utilized for the purposes for which it is intended. The terms "substantially complete" and "substantially completed" as applied to all or part of the Work refer to Substantial Completion thereof.

39. Supplier—A manufacturer, fabricator, supplier, distributor, materialman, or vendor having a direct contract with Contractor or with any Subcontractor to furnish materials or equipment to be incorporated in the Work by Contractor or a Subcontractor.

40. Total Project Costs—The total cost of planning, studying, designing, constructing, testing, commissioning, and start-up of the Project, including Construction Cost and all other Project labor, services, materials, equipment, insurance, and bonding costs, allowances for contingencies, and the total costs of services of Subconsultant or other design professionals and consultants, together with such other Project-related costs that Owner furnishes for inclusion, including but not limited to cost of land, rights-of-way, compensation for damages to properties and private utilities (including relocation if not part of Construction Cost), Owner's costs for legal, accounting, insurance counseling, and auditing services, interest and financing charges incurred in connection with the Project, and the cost of other services to be provided by others to Owner.

41. Underground Facilities—All active or not-in-service underground lines, pipelines, conduits, ducts, encasements, cables, wires, manholes, vaults, tanks, tunnels, or other such facilities or systems at the Site, including but not limited to those facilities or systems that produce, transmit, distribute, or convey telephone or other communications, cable television, fiber optic transmissions, power, electricity, light, heat, gases, oil, crude oil products, liquid petroleum products, water, steam, waste, wastewater, storm water, other liquids or chemicals, or traffic or other control systems. An abandoned facility or system is not an Underground Facility.

42. Work—The entire construction or the various separately identifiable parts thereof required to be provided under the Construction Contract Documents. Work includes and is the result of performing or providing all labor, services, and documentation necessary to produce such construction; furnishing, installing, and incorporating all materials and equipment into such construction; and may include related services such as testing, start-up, and commissioning, all as required by the Construction Contract Documents.

43. Work Change Directive—A written directive to Contractor issued on or after the effective date of the Construction Contract, signed by Owner and recommended by Subconsultant , ordering an addition, deletion, or revision in the Work.

B. Terminology

1. The word “day” means a calendar day of 24 hours measured from midnight to the next midnight.

ARTICLE 7—EXHIBITS AND SPECIAL PROVISIONS

7.01 Exhibits to Agreement

The following exhibits are incorporated by reference and included as part of this Agreement:

A. Exhibit A, Scope of Services.

B. Exhibit B, Deliverables Schedule.

C. Exhibit C, Project Schedule.

D. Exhibit D, Insurance.

E. Exhibit E, Compensation.

7.02 Total Agreement

A. This Agreement (which includes the exhibits listed above) constitutes the entire contractual agreement between Owner and Subconsultant and supersedes all prior written or oral understandings. This Agreement may only be amended, supplemented, modified, or canceled by a written instrument duly executed by both parties.

7.03 Designated Representatives

A. With the execution of this Agreement, Subconsultant and Owner shall each designate a specific individual to act as representative under this Agreement. Such an individual must have authority to transmit instructions, receive information, and render decisions with respect to this Agreement on behalf of the party that the individual represents.

7.04 Subconsultant 's Certifications

A. Subconsultant certifies that it has not engaged in corrupt, fraudulent, or coercive practices in competing for or in executing the Agreement. For the purposes of this Paragraph 8.04:

1. "corrupt practice" means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the selection process or in the Agreement execution;

2. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the selection process or the execution of the Agreement to the detriment of Owner, or (b) to deprive Owner of the benefits of free and open competition;

3. "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the selection process or affect the execution of the Agreement.

7.05 Conflict of Interest

A. Nothing in this Agreement will be construed to create or impose any duty on the part of Subconsultant that would be in conflict with Subconsultant ’s paramount obligations to the public health, safety, and welfare under the professional practice requirements governing Subconsultant, its Subconsultants, and all licensed professionals employed by Subconsultant or its Subconsultants.

B. If during the term of this Agreement a potential or actual conflict of interest arises or is identified:

1. Subconsultant and Owner together will make reasonable, good faith efforts to avoid or eliminate the conflict of interest; to mitigate any adverse consequences of the conflict of interest; and, if necessary and feasible, to modify this Agreement to address the conflict of interest and its consequences, such that progress under the Agreement may continue.

2. Such efforts will be governed by applicable Laws and Regulations and by any pertinent Owner’s policies, procedures, and requirements (including any conflict-of-interest resolution methodologies) provided to Subconsultant under Paragraph 2.04.A of this Agreement.

This Agreement's Effective Date is _____.

Owner:	Subconsultant:
Edmond Public Works Authority (name of organization)	Surveying And Mapping, LLC (name of organization)
By: _____ (individual's signature)	By: Brandon Espinosa (individual's signature)
Date: _____ (date signed)	Date: 1-5-2026 (date signed)
Name: Mark A. Nash (typed or printed)	Name: Brandon Espinosa (typed or printed)
Title: Mayor (typed or printed)	Title: Senior Vice President (typed or printed)
Attach evidence of authority to sign.	Attach evidence of authority to sign.
Attest: _____ (individual's signature)	Attest: Selina Moore (individual's signature)
Title: _____ (typed or printed)	Title: Contracts Manager (typed or printed)
Address for giving notices: PO Box 2970 Edmond, Oklahoma 73083	Address for giving notices: 4801 Southwest Parkway Building Two, Suite 100 Austin, Texas 78735
Designated Representative:	Designated Representative:
Name: _____ (typed or printed)	Name: Ethan Herbek (typed or printed)
Title: _____ (typed or printed)	Title: Director of GIS Operations (typed or printed)
Address: PO Box 2970 Edmond, Oklahoma 73083	Address: 501 N Market Street Maryville, MO 64468
Phone: _____	Phone: 660-562-0050
Email: _____	Email: Ethan.herbek@sam.biz

Managed Geospatial Services



SAM - Exhibit A

RFP RESPONSE FOR:

25-015 Stormwater Infrastructure Survey Phase I

SUBMITTED TO:

The City of Edmond, Oklahoma

August 14, 2025

SUBMITTED BY:

SAM

6700 Antioch, Suite 220
Merriam, KS 66204
913-349-3750 | info@sam.biz

Proposal Contact:
Ethan Herbek, GISP
660-541-0084
ethan.herbek@sam.biz

RFP Response Requirements	SAM Response	Page #
10.1. Transmittal Letter	SAM's transmittal letter outlines our firm's capabilities and emphasizes how SAM, in partnership with Hydromax USA, intends to support the City of Edmond, OK.	2
10.2. Executive Summary	The services requested by the City of Edmond in this RFP are neither new nor uncommon for the GIS experts at SAM and Hydromax USA. These services have been successfully delivered hundreds of times to local government entities across the country over several decades. We plan to leverage this extensive experience to provide the highest level of support and ensure a successful GIS project for the City.	3
10.3. Proposer Profile	Established in 1994 and headquartered in Austin, TX, SAM operates from more than 50 offices nationwide and employs over 1,700 professionals equipped with industry-leading technologies. This extensive network enables rapid mobilization of both on-site and remote resources, allowing SAM to efficiently meet even the most demanding project schedules and budgets anywhere in the country. SAM has multiple regional offices strategically located to provide comprehensive support for the Edmonds project.	4
10.4. Proposer References	SAM has included several project references that directly align with the services requested by the City of Edmond. Together, SAM and Hydromax USA bring decades of successful project experience that reflect the capabilities demonstrated in these references. We are proud of our extensive portfolio and are happy to provide additional references upon request.	7
10.5. Survey of Stormwater Infrastructure	By combining industry-leading technologies with proven processes, SAM delivers high-quality deliverables at a competitive cost, ensuring exceptional value for our clients. Our deep expertise in stormwater management and understanding of EPA regulations—and their impact on municipal operations—are central to our consultative approach to stormwater asset management projects. SAM will adhere to all project requirements as specified in Edmond's RFP.	11
10.6. Video CCTV Inspection	Hydromax USA proposes a NASSCO PACP-compliant approach to storm sewer cleaning and CCTV inspection for the City of Edmond, ensuring accurate, minimally disruptive service and seamless data integration with ArcGIS and CUES GraniteNet.	16
10.7. Data Integration	The SAM Team brings robust capabilities in data organization and management, particularly within spatial GIS environments. By integrating Esri ArcGIS Online with proprietary technical tools, we provide clients with on-demand access to a comprehensive suite of inspection data deliverables. This will include associated data collected during the project, contributing to a comprehensive and centralized database for Edmond staff to access and utilize.	19
10.8. Quality Assurance and Project Management	SAM enforces a comprehensive Master Quality Management Plan that all team members must follow to ensure consistency, accuracy, and completeness across all projects. Final deliverables undergo strict QA procedures and detailed checklists. Regardless of project size or complexity, SAM applies a rigorous, standardized process for field data collection, processing, and review—resulting in error-free deliverables that exceed industry standards.	23
10.9. Project Personnel	The team of specialists from SAM and Hydromax USA possesses the expertise, resources, and proven methodologies necessary to deliver all services outlined in Edmond's RFP.	28
10.10. Pricing	SAM's proposed Project Team offers deep expertise and a strong track record in accurately estimating project costs. Drawing from past project experience, industry standards, and common challenges, they develop dependable budgets that align with project goals. Their approach thoroughly evaluates resource needs, timelines, and potential risks—including scope creep—to support successful and efficient project delivery.	41

SAM Exhibit A

August 14, 2025

RE: RFP 25-015 Stormwater Infrastructure Survey Phase I

Surveying And Mapping, LLC (SAM) respectfully submits our proposal and qualifications to the City of Edmond, OK in response to RFP 25-015 Stormwater Infrastructure Survey Phase I. SAM customizes its approach to meet the unique needs of each client and is committed to complying fully with the provisions outlined in the RFP without alteration.

With over 1,700 personnel and 280 field data collection crews nationwide, SAM has the specialized expertise and resources to handle projects anywhere in the country with unparalleled accuracy and under strict time schedules. SAM is able to capture and analyze data with unprecedented precision and accuracy. As an Esri Silver Business Partner, our comprehensive approach ensures we have the tools required to meet your specific needs, while our experience provides us with the requisite skills to manage and execute projects of any scale.

SAM has partnered with Hydromax USA, a professional pipe services group with an office in Tulsa, to support our local resources dedicated to Edmond to locate, document, and inventory the City's stormwater system. Combined, the SAM Team is unrivaled in our abilities to form a comprehensive condition assessment for Edmond that will enable long-term maintenance and asset management capabilities.

A highlight of characteristics that make SAM's team uniquely capable of executing and managing this project for Edmond include:

- SAM has completed 500+ municipal field inventory and condition assessment projects for storm and sanitary sewer utilities built and delivered in Esri. We have integrated with countless asset management applications, supporting hundreds of cities, utilities, counties, industrial clients, as well as state and federal government agencies.
- Our dedicated GIS field crews have GPS located and inventoried and inspected millions of infrastructure assets, including storm sewer, water distribution, sewer, electric, roadway signs & signals, as well as gas and telecom utilities.
- The SAM Team understands that handling CCTV projects necessitates a skilled firm capable of assessing and delivering quality data deliverable. Successful execution hinges on having the appropriate equipment and knowledge of its optimal utilization. Our team is the most qualified to support these services for Edmond.
- At SAM, Quality Control (QC) is fundamental to our everyday work activities and a rigorous system of Quality Assurance (QA) procedures is routinely implemented in the final review of our work products. Our work processes are refined through lessons learned and continually evolve with quality improvement processes.

SAM acknowledges completion of the Pricing Worksheet. SAM confirms that the proposal will remain firm for one hundred and twenty (120) days following the proposal due date. SAM has reviewed the terms and conditions and has no exceptions. Ethan Herbek is contractually designated as the authorized signatory for SAM.

Thank you for considering SAM for this important GIS project. We look forward to an opportunity to further showcase our qualifications and discuss how SAM can successfully complete this stormwater project.

Respectfully Submitted

Ethan Herbek, GISP | Director of GIS Operations
Authorized Signatory and Point of Contact
ethan.herbek@sam.biz | 660-541-0084

SAM - Exhibit A

SAM's Understanding of the Project Scope

SAM recognizes that the City of Edmond, OK is initiating Phase I of a multi-phase Stormwater Infrastructure Assessment Project through this Request for Proposal (RFP). The City seeks professional services in Surveying, CCTV Inspection, and Data Integration to collect accurate spatial and condition data of existing stormwater infrastructure—including inlets, culverts, channels, manholes, and outfalls to integrate this information into the City's Geographic Information System (GIS) to support long-term planning and asset management.



Phase I Scope and Coverage

This initial phase encompasses approximately 3 square miles, divided into two defined areas:

- Area 1: Kelly to Boulevard, Danforth to 15th (~2 sq. mi.)
- Area 2: Boulevard to Bryant, Danforth to 2nd (~1 sq. mi.)

KEY SERVICES AND APPROACH

Surveying

SAM will deploy high-precision GNSS data collection methods to map stormwater assets with vertical accuracy of ±3 cm. All relevant public and select private infrastructure will be documented, including pipe dimensions, materials, elevations, and flow directions. Under the supervision of a licensed Oklahoma Professional Land Surveyor (PLS), SAM will establish two permanent benchmarks to support current and future surveying efforts, aligned with the City's monument network and upcoming NSRS modernization.

CCTV Inspection

In collaboration with Hydromax USA, SAM will conduct PACP-compliant inspections using advanced camera systems to evaluate pipe conditions, identify blockages, and record continuous video footage. Equipment will meet City standards for resolution, lighting, and maneuverability. Inspection data will be formatted for compatibility with the City's Cues GraniteNet software and spatially integrated using Feature Facility IDs.

Data Integration

SAM and Hydromax USA will ensure that all survey and inspection data is synchronized with the City's GIS using Esri Distributed Geodatabase Replication. Visual media—including videos and photos—will be linked to infrastructure records to enhance spatial analysis, reporting, and future planning.



COMMITMENT TO PROJECT SUCCESS

SAM understands that Phase I lays the groundwork for future phases, with two to three additional phases anticipated to expand coverage across the City. SAM is committed to maintaining clear communication with property owners during fieldwork, complying with traffic control and permitting requirements, and delivering high-quality, actionable data that supports the City's long-term stormwater infrastructure goals.

SAM has no exceptions to the RFP requirements imposed by the City of Edmond.

SAM - Exhibit

SAM – Leader in Managed Geospatial Services

Delivering comprehensive GIS services for over 30 years, SAM has established a technical infrastructure and experience team to design, implement and support municipal and utility GIS programs across the country. SAM ensures that every client, regardless of size and resources, can implement an enterprise GIS program to manage everything from land parcels and transportation infrastructure to utility assets and work orders for all stakeholders by leveraging Esri technology in conjunction with industry applications for cities. We strive to stay cutting edge and diverse in our expertise so we can scale our services to projects of every size and need.

Every job, regardless of size and duration includes a level of consulting and personal service. GIS systems are unique in design, function and purpose. We have provided needs assessment and strategic plans for our mid-size and larger clients in order to establish a road map, funding justification and method of accountability for clients to change and grow with.

SAM's complete geospatial approach ensures we have the tools and skills to develop efficient and customized solutions for projects of any scale. This gives our clients the benefit of a single point of contact for a comprehensive set of GIS, surveying and mapping products. The size of our available workforce means we are able to use these tools effectively to accomplish even large-scale projects on accelerated schedules. With our focus on quality and timely delivery, we are proud to have a high rate of repeat business and positive client referrals.

SAM Professional Services


Geographic Information System (GIS) Services


Professional Land Surveying


Aerial Mapping & Photogrammetry


Subsurface Utility Engineering & Utility Coordination


Airborne, Mobile & Terrestrial LiDAR

The SAM GIS team understands that every solution we implement must improve the efficiency and accuracy of daily operations. This is why SAM is consistently hired based on qualifications and routinely recommended by our client base.

SAM specializes in geospatial services for water, stormwater, sanitary sewer, electric utilities, and transportation infrastructure. ***With specialized teams of full-time, trained GPS field technicians, utilizing precision-accurate GPS equipment and cutting-edge Esri software, our staff is dedicated to accurately locating assets and completing inspections and condition assessments for the sole purpose of GIS data integration.*** Our geospatial services include:

- GPS Field Mapping
- GIS Data Reconstruction
- Utility/Infrastructure Data Collection
- Asset Management Programs
- Utility Inspections
- GIS Data Development
- Data Conversion
- Consulting
- Election GIS Mapping
- SL-RAT Sewer Acoustic Inspection
- GIS Mapping
- Custom Programming
- Web-Based, Mobile GIS Programs
- Maintenance & Support
- Parcel Mapping & Maintenance
- Specialized Training

CCTV Partner Hydromax USA Firm Overview

Hydromax USA, headquartered in Flower Mound, Texas, has been a trusted industry leader for over 22 years. The company is owned by Industrial Group Partners, a San Francisco-based private investment partnership that has raised over $3.4 billion in capital since its inception in 1997. Hydromax USA's strong financial foundation is supported by a consistent track record of performance and strategic investments in innovative technologies and infrastructure solutions. This stability enables the company to confidently deliver large-scale projects, foster long-term partnerships, and continually expand its capabilities across utility and municipal markets. With disciplined financial management and a commitment to safety and operational excellence, Hydromax USA is well-positioned to meet the evolving needs of clients such as the City of Edmond while driving sustainable growth and resilience in a dynamic industry.

SAM Exhibit A

PAST PERFORMANCE

Over the last 22 years, Hydromax USA has achieved an outstanding record of supporting wastewater clients throughout the United States. Our in-house crews and project managers have assessed more than 20 million linear feet in closed-circuit television (CCTV) and sonar inspections, 1.5 million manhole inspections, 8 million linear feet of smoke testing, and collected more than 95 million data points. As a national professional services firm with more than 550 employees, Hydromax USA has the necessary expertise and manpower to successfully execute this program, and we are well-positioned to provide additional capabilities and solutions to the City of Edmond.



Hydromax USA / H517
Freightliner 108SD VAC/Combo

Hydromax USA utilizes the CUES SoLID FX Sonar/LiDAR Profiling System & Multi-Sensor Inspection platform that includes 2D laser or LiDAR profiling, Sonar inspection, and HD CCTV inspection capabilities. This technology has been employed on similar projects with the cities of Memphis, Kansas City, and Austin.

EXPERIENCE WITH OTHER GOVERNMENTAL ENTITIES

Hydromax USA is a multi-sensor inspection pioneer, specializing in the integration of digital CCTV and multiple sensors, including laser and SONAR equipment, and the interpretation and presentation of the raw data. We transform infrastructure data into actionable business intelligence, enabling utilities to accelerate operational excellence, promote the continuity of critical assets, and invest funding where it matters most. The following references are provided to demonstrate the capabilities of the Hydromax USA team in working with diverse clients to create and deliver programs tailored to fit unique needs.

10.3.1. Years in Business

Founded in 1994, with a headquarters in Austin, TX, SAM has grown to become one of the nation's largest geospatial and construction services firms.

10.3.2. Financial Strength

Having been established for more than 30 years, with 57 offices across the U.S., and a diverse market portfolio, SAM has the financial stability that allows it to undertake and successfully complete multiple large projects, executed concurrently across a broad geography. SAM's revenue exceeded $327 million in 2024, and its good financial standing has resulted in a robust line of credit. We also generate substantial EBITDA (Earnings Before Interest, Taxes, Depreciation, and Amortization) from our operations.

10.3.3. Total Number of Employees

SAM employs approximately 1,700 full-time and part-time personnel across 57 offices nationwide.

SAM-Exhibit A

10.3.4. Support Information

The SAM Team understands that this project is of great importance to Edmond. Our combined efforts of ***SAM and Hydromax USA provide an unrivaled Oklahoma presence of two regional offices dedicated to this project.***

In addition to a heavy use of local resources, the SAM Team owns all required equipment necessary to provide all services as requested by Edmond. This ownership enables our team to allocate the necessary resources without the need to share- this is a crucial factor in meeting the timeline established by Edmond for this project.

Key Staff Members will be available M-F during daytime hours, by email or direct line throughout the duration of the project. ***The percentage of time that staff will be devoted to this project will vary from 10-100% based on staff type, depending on schedule and deliverables, where we guarantee the completion of the project within the given timeline.***

10.3.5. Similar Services in the Last 5 Years

Over the past five years, SAM's Key Personnel assigned to this RFP have successfully delivered stormwater mapping services to 28 clients across the country, showcasing our extensive expertise and consistent performance in this specialized field. Of these engagements, five projects included strategic partnerships with CCTV inspection providers, allowing for integrated condition assessments and seamless data delivery. This experience positions SAM to effectively manage complex stormwater infrastructure projects that require both high-precision surveying and detailed internal pipe evaluations.

10.3.6. Mergers and Acquisitions

As an industry leader, we are continually searching for ways to expand our value-adding client solutions, provide our employees with exciting career development opportunities, and add best-in-class talent to our team. We see mergers and acquisitions as a key component of our strategy to meet these goals.

Having successfully completed sixteen acquisitions over the past seven years, we have collaborated with founders to deliver win-win scenarios for our collective clients, stakeholders, and employees. SAM's entrepreneurial, employee-first culture and expertise have given these founders the ability to accelerate their business, provide their people with unparalleled career opportunities, and monetize their most valuable personal asset.

The following is a list acquisitions from the last three years: Doucet Survey, S. Nelson & Associates, Xtensible Solutions, Construction Survey Technologies, Inc (CSTi), Theorem Geo Engineering, GdB Geospatial, PrecisionPoint, Inc., Wellston Associates Land Surveyors, AXIS GeoSpatial, MTPLS Surveying & Mapping, GeoSolutions, LLC, Carolina Surveying Services, Inc., AXIS Survey & Mapping, Echezabal & Associates, Inc., and Linewise Aerial.

10.3.7. Failed or Terminated Contract

SAM has not failed to complete any contract, nor has any contract been terminated due to performance issues. The company maintains a strong track record of fulfilling contractual obligations in accordance with client expectations and project requirements.

SAM - Exhibit A

SAM Project Experience

City of Aspen, Colorado

Location: Aspen, CO
Size of City: 6,600
Contact: PJ Murray, P.E | Engineering Department | 970-309-5602 | pj.murray@aspen.gov
Contract Dates: 2024-2025
Contract Value: $330,000.00
Date of Initial Survey: 2024
Length of Time to Complete survey: Ongoing
Scope of Work: In 2024, SAM was selected to complete Phase 1 of a stormwater mapping project for the City of Aspen, CO. This phase included locating stormwater infrastructure, cleaning pipes, conducting video inspections, and creating a GIS-based condition assessment. Aspen's aging and poorly documented system posed challenges for maintenance and repairs, prompting a shift to proactive management.

SAM used RTK survey-grade GPS equipment and Trimble tools to collect accurate location and condition data for stormwater features. A subcontractor provided CCTV inspections and cleaning, with all data integrated into the GIS system. Certified staff analyzed the findings and recommended pipe rehabilitation.

In 2025, Aspen approved Phase 2 of the project, which is currently underway.

City of Seguin, Texas

Location: Seguin, TX
Size of City: 36,013
Contact: Travis Acklin | GIS Manager | tacklin@seguintexas.gov | (830) 386-2243
Contract Dates: 2024-2025
Contract Value: $285,000.00
Date of Initial Survey: 2024
Length of Time to Complete survey: 3 months
Scope of Work: In 2024, the City of Seguin, TX selected SAM through an RFQ process to provide stormwater inventory mapping services in response to rapid urban growth and increased stormwater runoff. SAM used RTK survey-grade GPS to map stormwater features and conducted top-side inspections to support regulatory compliance. Crews collected detailed attributes for each structure, enabling a turnkey dataset for asset management and engineering.

SAM also reported inaccessible or missing utility features for follow-up during the project's clean-up phase. As a result, Seguin now has a complete and accurate GIS-based stormwater network, enhancing its ability to manage maintenance, budgeting, and work orders.

SAM - Exhibit A

City of Iowa City, Iowa

Location: Iowa City, IA
Size of City: 171,000
Contact: Jonathon Durst | Water Superintendent | 319-356-5169 | jonathan-durst@iowa-city.org
Contract Dates: 2020-Ongoing
Contract Value: $993,833.00
Date of Initial Survey: 2020
Length of Time to Complete survey: Ongoing
Scope of Work: Iowa City, IA prioritized maintaining a robust GIS program to support its growing utility infrastructure. In 2019, SAM was selected to lead a three-phase asset management initiative for the city's utility networks. Phase 1 involved studying and selecting an asset management system. Due to SAM's strong GIS capabilities, they were chosen for Phase 2, which included GPS mapping and inspections of the wastewater system using RTK survey-grade equipment for highly accurate data.

Phase 3, completed in 2022, integrated the GIS data into a tailored asset management program to enhance infrastructure planning and maintenance tracking. SAM continues to support the city with consulting services.

In 2023, SAM was contracted to GPS locate stormwater infrastructure and also mapped the city-owned fiber network using RTK GPS technology with high horizontal accuracy.

Hydromax USA Project Experience

City of Kansas City (Smart Sewer)

Location: Kansas City, MO
Size of Agency: 7,094 employees
Contact: Jacob Groh, P.E., Project Engineer, 816.513.0382, Jacob.Groh@kcmo.org
Contract Dates: 2016 – ongoing
Contract Value: $1.1M annually
Date of Initial Survey/CCTV Inspection: 2016
Length of Time to Complete survey/CCTV Inspection: Ongoing
Scope of Work: As a key partner in Kansas City, Missouri's Smart Sewer Program, Hydromax USA delivered a comprehensive condition assessment of the City's wastewater infrastructure. Over the course of the project, Hydromax USA cleaned and performed NASSCO PACP-compliant inspections on more than 1,500,000 linear feet of sewer mains, with pipe diameters ranging from 8 inches to 96 inches.

In addition to conventional inspections, Hydromax USA completed over 25,000 linear feet of advanced multi-sensor inspections on large-diameter pipelines using the CUES SFX system. These inspections, performed on pipes ranging from 24 inches to 120 inches in diameter, provided high-resolution data on structural condition, sediment levels, and pipe geometry—critical components for supporting Kansas City's risk-based asset management strategies.

Hydromax USA's innovative inspection methods and commitment to delivering actionable, high-quality data have helped Kansas City advance its Smart Sewer Program goals, prioritize infrastructure investments, and extend the life of its wastewater system.

SAM - Exhibit A

City of Oklahoma City

Location: Oklahoma City, OK
Size of Agency: 5,822 employees
Contact: Carla Muscarella, Vice President Water Practice Leader, 404.985.8081, Carla.Muscarella@woolpert.com
Contract Dates: 2021- 2023
Contract Value: $1M annually
Date of Initial Survey/CCTV Inspection: 2021
Length of Time to Complete survey/CCTV Inspection: 2023
Scope of Work: Hydromax USA was brought in to successfully complete a critical sewer inspection project after two previous contractors were unable to meet the project's requirements. The scope included Closed-Circuit Television (CCTV) inspection of approximately 235,000 linear feet of 6-inch to 12-inch sewer pipe. In addition to inspection, Hydromax USA provided comprehensive jet-vac truck services, which involved the removal and proper disposal of accumulated solids, sludge, and grit. Our team delivered reliable results and met the project objectives where others could not.

City of Memphis SARP10 (Black & Veatch)

Location: Memphis, TN
Size of Agency: 8,000 employees
Contact: Bently Green, Program Manager, 636.536.1123, greenbz@bv.com
Contract Dates: 2017 – 2025
Contract Value: $2.5M annually
Date of Initial Survey/CCTV Inspection: 2017
Length of Time to Complete survey/CCTV Inspection: 2025
Scope of Work: As the prime contractor for the City of Memphis' Sanitary Sewer Assessment and Rehabilitation Program (SARP10), Hydromax USA played a critical role in the City's multi-year initiative to assess and rehabilitate its aging sewer infrastructure. From 2017 through 2025, Hydromax USA led comprehensive field investigations across the Memphis metropolitan area with a focus on condition assessment, environmental compliance, and data-driven asset management.

Key accomplishments include:

- Cleaning and CCTV Inspection: Over 2 million linear feet of sanitary sewer pipelines cleaned and televised to provide a PACP evaluation of structural and operational condition.
- Manhole Inspections: Conducted MACP inspections on more than 8,000 manholes to assess structural integrity and identify sources of inflow and infiltration.
- Smoke Testing: Performed smoke testing on over 2 million linear feet of sewer to detect unauthorized connections and defects contributing to inflow and infiltration.
- CCTV/Sonar Inspection (24" and larger): Completed over 100,000 linear feet of combined closed-circuit television and sonar inspections on large-diameter pipes, providing comprehensive above- and below-waterline condition data.
- Multi-Sensor Inspections (60" – 96"): Executed more than 15,000 linear feet of large-diameter multi-sensor inspections using the CUES SFX system, integrating laser profiling, sonar, and high-definition CCTV for a complete internal profile of critical trunk lines.

Hydromax USA's innovative approach and advanced technology solutions enabled the City of Memphis to prioritize rehabilitation efforts, reduce sanitary sewer overflows, and extend the life of its wastewater infrastructure. The success of this long-term program underscores Hydromax USA's expertise in managing complex, high-volume utility assessment projects.

SAM - Exhibit A

Clients	SAM's Recent Work on Similar Projects					
	Geodatabase Design	GPS Mapping	Stormwater Inventory	Condition Assessment	Asset Management	Program Implementation
Mooresville, NC	✓	✓	✓	✓		✓
Englewood, CO	✓	✓	✓	✓	✓	
Bellevue, NE	✓	✓	✓	✓		
Knoxville, TN		✓	✓			
Ozark, MO	✓	✓	✓	✓	✓	
Orange City, IA	✓	✓	✓	✓	✓	✓
NASA LaRC	✓	✓	✓	✓		
Sedalia, MO	✓	✓	✓	✓	✓	✓
Stallings, NC	✓		✓			✓
Topeka, KS	✓	✓	✓	✓	✓	✓
St. Joseph, MO	✓	✓	✓	✓	✓	✓
Beeville, TX	✓	✓		✓	✓	✓
Jefferson County, MO Public Works	✓	✓	✓	✓	✓	✓
Bondurant, IA	✓	✓	✓	✓	✓	✓
Moberly, MO	✓	✓	✓	✓	✓	✓
Mount Holly, NC	✓	✓	✓	✓	✓	
North Liberty, IA	✓	✓	✓	✓	✓	✓
Farmington, MO	✓	✓	✓	✓	✓	✓
Burlington, IA	✓	✓	✓	✓	✓	✓
Ottawa, KS	✓	✓	✓	✓	✓	✓
Coral Springs, FL	✓			✓		✓
Centralia, MO	✓	✓	✓	✓	✓	✓
Fairfax, IA	✓	✓	✓	✓	✓	✓

SAM - EXHIBIT A

10.5.1. Survey of Stormwater Infrastructure Project Approach

SAM understands that the City of Edmond is looking for the most qualified firm to support the City through a comprehensive assessment of the City's stormwater utility system and the development of a City-wide stormwater GIS. The SAM Team has decades of experience in GIS consulting, design, and development, specializing in these services specifically for utility infrastructure. The project for Edmond is not a rare opportunity for the SAM Team, but something our experts have completed hundreds of times over for clients across the country. This combination of specialized services is the most qualified to successfully complete the following services for Edmond:

- Review and analysis of existing data resources
- Stormwater GNSS field data collection
- Inventory and attribute collection
- Condition Assessment for utility infrastructure
- CCTV inspection and cleaning of infrastructure

EXISTING DATA ANALYSIS

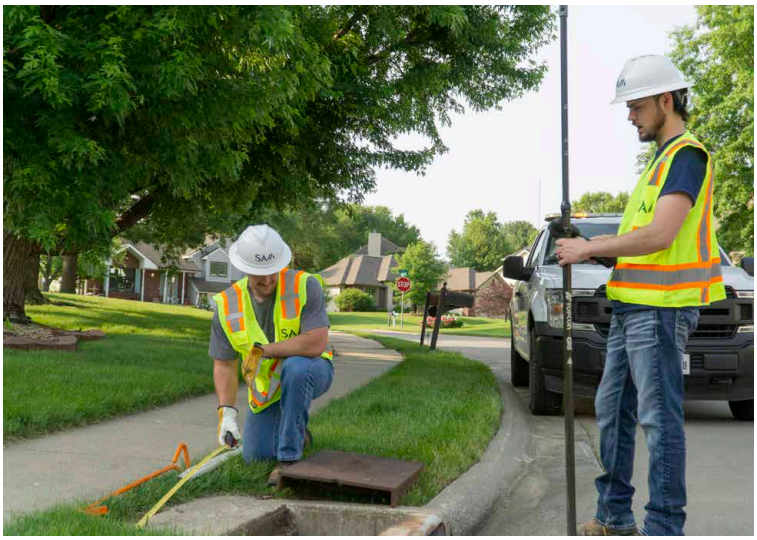
At the same time as the kick-off meeting, the SAM team will acquire copies of existing and available mapping data for review, analysis and for use as reference during the project. SAM understands that the City has existing datasets that are maintained by the City's GIS Department.

SAM will work with the necessary City staff to establish a scoring matrix that will be utilized throughout the project to identify the levels of pipe degradation during the assessment portion of the project. At this time, the SAM Team will determine the best pipe video identification system to meet all the goals and requirements of Edmond.

SAM's GIS team will coordinate with key COE GIS personnel to set up a secure process of sharing data through an Esri Distributed Geodatabase Replication.

INFRASTRUCTURE INVENTORY: LOCATE, INSPECT, AND INVENTORY

SAM project leadership will coordinate and develop a project schedule for all task objectives defined in section 9.2.1 of the RFP. SAM understands that Edmond has seasonal events that the SAM Team must coordinate around. Our management team is accustomed to overseeing data collection projects with little to no impact on both a City's flow of traffic and City departments' daily workflow and operations. The team will work closely with COE staff to ensure that schedules are developed to keep the project moving while having as little impact as possible on citizen events.





SAM Exhibit A

GNSS FIELD COLLECTION



For this project, SAM will utilize our firm's GNSS and data collection equipment. SAM is the largest single commercial user of Trimble technologies in America. This enables SAM to access the newest field collection technologies, often before they are even available to the general public. SAM has streamlined the data collection process in order to minimize errors and promote efficiency in the field. This includes the best equipment in terms of accuracy and reliability, as well as workflows for our teams in the field that use the equipment on a regular basis.

SAM will employ RTK survey-grade collection methods using Trimble R12i GNSS Receiver(s) to locate the City's storm sewer features as contained in the defined project limits. SAM will utilize a Trimble TSC5 Data Collector with Trimble Access software in order to streamline the information collected at each storm sewer structure. ***RTK survey-grade technology is utilized for locating utility assets, resulting in centimeter-level accuracy (+/- 2 centimeters) and accurate elevations.***

DATA CONSISTENCY

SAM will employ our customized data collection field application that has been successfully used on other similar projects. All field data will be predefined for field staff to ensure accurate and consistent attribute collection. Field staff will run the custom application on the GNSS controller unit to allow for quick and easy identification and navigation of the utility features.

Inlets that are inaccessible by GNSS due to tree cover or satellite visibility will be noted and shot utilizing traditional survey methods. All data will be coded in reference to method of collection. Any storm sewer structures that require further assistance in opening or gathering attribute data will be noted and SAM will work with City staff to gain access to the identified storm sewer structures.



CONDITION ASSESSMENT

The SAM's National Association of Sewer Service Companies (NASSCO) certified field crews will provide condition assessment on all storm sewer infrastructure feature and pipe segments based on Pipeline Assessment Certification Program, Lateral Assessment Certification Program, and Manhole Assessment Certification Program guidelines. This will be utilized to rate the overall condition of catch basins, stormwater manholes, and stormwater mains.

STORM LINE CROSS SECTIONS

SAM will provide one (1) linear cross section across the full width of the road along the centerline alignment of each subject storm line. Each cross section will include horizontal and vertical location data for the following features: Top of Curb, Face of Curb, Flow Line / Gutter Line of Curb, and Edge of Road.

All survey data will be collected using equipment and methodologies consistent with the accuracy and standards outlined in the project RFP. Survey operations and deliverables will be supervised and reviewed for quality assurance by a licensed Oklahoma Professional Land Surveyor.

If cross sections are required at additional intervals up- or down-station from the storm line centerline, SAM can provide these as an additional service. All requests for additional services must be submitted in writing and will be performed in accordance with the SAM 2025 Standard Rate Schedule or a mutually agreed upon Lump Sum Fee.

SAM Exhibit A

BENCHMARK ESTABLISHMENT



In accordance with the RFP and under the supervision of a licensed Oklahoma Professional Land Surveyor, SAM will establish two (2) permanent benchmarks to support current and future surveying needs. These benchmarks will integrate with the City's existing monument network and comply with COE GPS Monument Data Sheets and COE Construction Standards. If additional benchmarks are required, SAM can provide these as an additional service. All requests for additional services must be submitted in writing and will be performed in accordance with the SAM 2025 Standard Rate Schedule or a mutually agreed upon Lump Sum Fee.

Given the anticipated release of the new National Spatial Reference System (NSRS) in 2026—which will supersede NAD 83 and NAVD 88—SAM will ensure the new benchmarks are positioned and documented for compatibility with forthcoming SPCS 2022 reference frames and geopotential datums.

Benchmark Placement Criteria:

- Located in areas lacking sufficient published control stations
- Or placed per direction provided by the Client
- Positioned to maximize spatial accuracy and long-term utility

Deliverables for Each Benchmark Include:

- Detailed station references
- Thorough "To Reach" descriptions
- High-resolution photographs
- Site-specific notes

This documentation will ensure long-term recoverability and facilitate reliable reuse of each station for future surveying and geospatial operations.

CITIZEN NOTIFICATION AND PUBLIC AWARENESS

SAM will work with City staff to ensure proper citizen notification. It has been our experience on similar projects that informing citizens about the field work will help to alleviate any concerns local residents may have. Notifications at City Hall, utility billing offices and the local newspaper or public access channel (if available) is highly recommended. SAM field staff will carry an informational letter on letterhead from the City of Edmond describing the project and the proper contact information in the event there are concerns from the public. SAM field staff will also carry COE approved door hangers in the case that infrastructure needs to be located on private property. It is recommended that local law enforcement be notified about the project, and that SAM field staff will be working in the area.

10.5.1.1. Data Integration into City's ArcGIS Data

All condition assessment data will be organized in a GIS database to enable Edmond staff to make informed decisions regarding maintenance and replacement priorities. The SAM Team will coordinate with COE GIS staff to ensure all updates are managed through an Esri Distributed Geodatabase replication.

The SAM team will ensure that all data updates are loaded into the geodatabase and synchronizations are scheduled for COE review throughout the project's life cycle. All final CCTV inspection data, videos and pictures will be linked to the assets in the final datasets.

SAM - Exhibit A

10.5.1.2. Survey Equipment and Software Description

As an industry leader, SAM is committed to keeping technology and equipment at the forefront of our services. In the last two years, SAM has allocated $20+ million into new technologies and innovative solutions. SAM is continually looking for new ways to increase the ability collect data, detect utilities, update deliverables to depict information in a more intelligent manner, and other means to further solidify our place as an industry leader in SUE, survey, and GIS. For the Edmond project, the SAM team field crews will use a combination of the following equipment and software:

- RTK survey-grade GPS - Trimble R12i GNSS Receiver, Trimble TSC5 Data Collector, Trimble Total Stations, iOS Tablets
- Data collection software - Trimble Access, ArcGIS Field Maps

10.5.1.3. Physical and Personnel Security



SAM's equipment security policy outlines strict procedures for safeguarding company-owned equipment issued to employees for work purposes. Employees are accountable for protecting all assigned equipment—such as laptops, cell phones, sensors, and tools—against loss, theft, or damage (excepting ordinary wear and tear). If equipment is lost, stolen, or damaged due to negligence or failure to follow policy, the individual responsible must reimburse SAM for repair or replacement costs, up to $500 per incident. Employees must take precautions like securely storing equipment under lock and key when unattended, avoiding storing devices in locked vehicles (especially in extreme temperatures), labeling all equipment with SAM identification, and physically securing items during transportation. Field crew members bear responsibility for equipment used by their teams and must ensure equipment is properly secured, handled, and brought inside during overnight stays. Any incident of loss, theft, or damage must be immediately reported to supervisors, law enforcement (if applicable), and the insurance administrator, accompanied by a detailed report. Non-compliance with these procedures may result in disciplinary action, including termination, aside from personal financial liability. Employees are required to acknowledge the policy and, if requesting payment installments, sign a wage deduction authorization. This comprehensive approach aims to minimize risk and maintain accountability for all company-owned equipment.

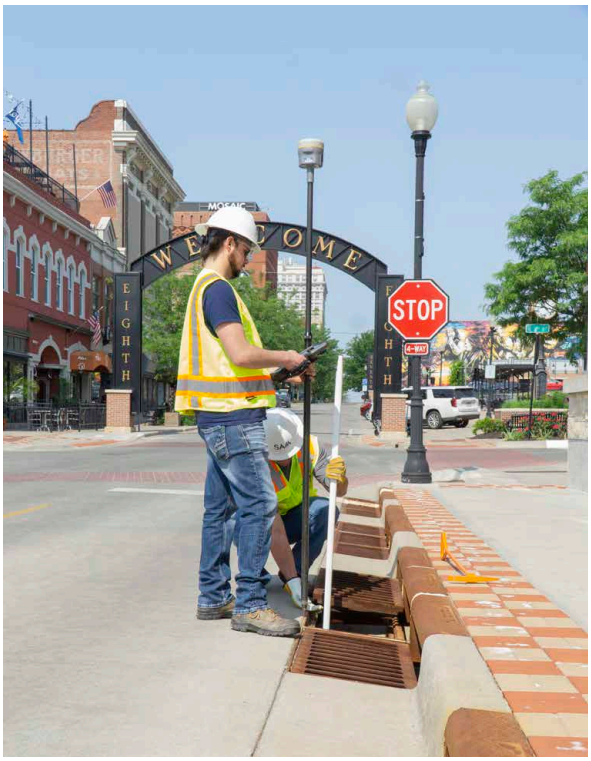
SAFETY AND PROCEDURES

SAM will review safety and field procedures during the kick-off meeting to ensure the safety of field staff, City staff and the citizens of Edmond throughout the data collection phase of the project. SAM follows a strict safety and procedures manual and requires all SAM employees to attend internal quarterly safety meetings to review procedures and concerns.

At all times, field staff will be wearing the required Class II traffic safety vests, and all field vehicles will be clearly marked with company information and have the required safety lights for operation while in public right-of-way. GPS field personnel have acquired OSHA training and certification for "Traffic Control for Field Engineering & Surveyors" and "Confined Spaces". Proper traffic control signage will be utilized when necessary while operating in public right-of-way. When needed to ensure the safety of our staff, third-party traffic control will be utilized in accordance with local requirements. If required, due to traffic concerns, SAM will operate during non-peak hours to obtain field locates and inspections. If SAM staff has concerns about their safety, the appropriate City staff or local law enforcement will be contacted.

SAMPLE Exhibit A

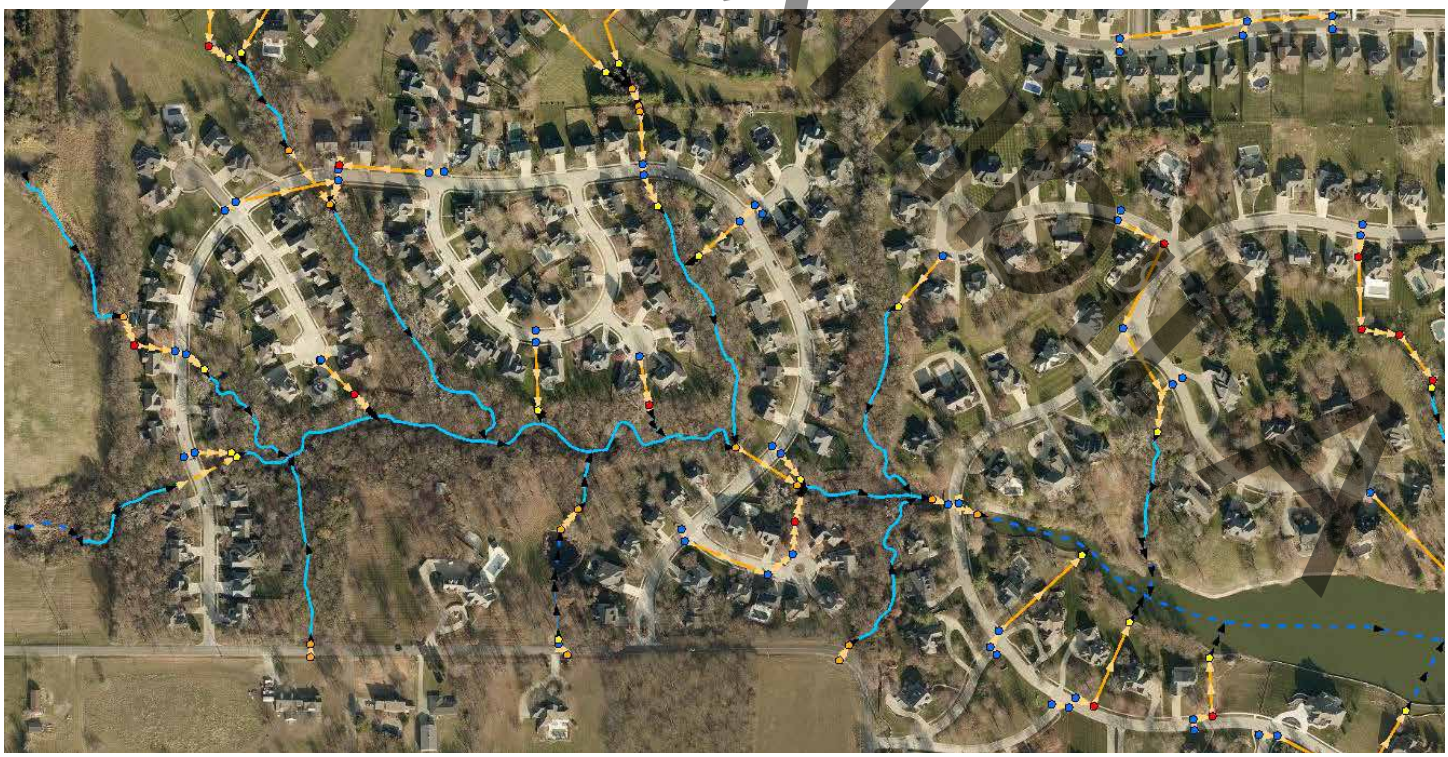
10.5.1.4. Customer Notification Process



SAM will coordinate closely with City staff to ensure proper notification of residents and businesses prior to the start of field activities. Based on our experience with similar projects, proactive communication helps alleviate concerns and fosters public understanding and cooperation. We recommend distributing notifications through multiple channels, including postings at City Hall, utility offices, and local media outlets such as newspapers or public access television (if available). These efforts help ensure broad awareness across the community.

SAM field personnel will carry an informational letter on official City of Edmond letterhead. This letter will describe the project scope and provide appropriate contact information for any questions or concerns from the public. To further support public safety and transparency, we also recommend notifying local law enforcement agencies about the project and the presence of SAM crews working in the area. This helps ensure that field activities are recognized and supported by local authorities.

If direct contact with residents or business owners cannot be made, SAM crews will leave a City of Edmond-approved door hanger explaining the project and the reason for our presence. SAM will collaborate with COE staff to customize the content of the door hanger to ensure clear and effective public communication. Notification schedules will be aligned with the field deployment timeline, with door hangers distributed 48 to 72 hours in advance of field work whenever feasible.



SAMPLE

10.6.1. Video CCTV Project Approach

Hydromax USA proposes a thorough, systematic, and NASSCO PACP-compliant approach to storm sewer cleaning and CCTV inspection for the City of Edmond (COE), delivering fully integrated data with Edmond's ArcGIS system and CUES GraniteNet platform. Our methodology prioritizes accuracy, minimal disruption to residents, and clear, actionable condition assessments.

10.6.1.1. CCTV Inspection Equipment and Software Description

- Equipment Utilization: Hydromax USA will deploy industry standard inspection technology including:
  - CUES Lamp II and OZIII Pan and Tilt Cameras and rugged mainline crawler systems with high-intensity lighting (100% humidity capable)
  - Zoom pole cameras for rapid pipeline assessments from curb inlets to minimize traffic disruptions and costs.
  - PACP compliant software (POSM) that is compatible with GraniteNET
  - Sonar profiling equipment for lines with greater than 8 inches of flow to identify debris levels and ovality below the flow
  - LiDAR Inspection equipment to assess 30" and larger pipelines to check for wall loss and ovality
  - High quality cameras with onboard adjustable LED lighting to ensure clarity in all conditions.

10.6.1.2. General Surveying Process Overview



- Coordination with SAM survey crews
  - Hydromax USA will follow behind SAM field survey teams to ensure accurate mapping of storm drain locations and connectivity prior to CCTV inspections.
  - This will reduce inefficiencies and ensure that Feature Facility ID's are properly linked to actual conditions in the field.
- On site inspection
  - Attempt resident contact
  - Clean pipe segments only if needed to complete inspection
  - Deploy appropriate CCTV system IE. crawler, zoom camera, sonar, or laser
  - Collect PACP videos
- Post Inspection QA/QC
  - Data analyst reviews of all data for accuracy
  - Data delivered in COE specified formats and integrated with GIS

Alternative Methods

- Zoom camera assessment for shorter segments utilizing a Zoom pole camera
- Segment based cleaning on when PACP visibility is impacted, minimizing unnecessary cleaning costs.
- LiDAR inspections only on pipes 30"
- Sonar on pipes with greater than 8" of flow

10.6.1.3. Cleaning Methodology and Obstruction Handling

- Equipment Deployment
  - Combination sewer cleaning/vacuum trucks with 800' high-pressure 1" hoses.
  - Various nozzles: jet, grease, sand, root saws, stub-in/ protruding tap cutters.
- Methodology
  - Once an obstruction is shown to block the camera from traversing the pipeline, then the pipeline will be cleaned

SAM - Exhibit A

- Locations with severe blockages will be flagged for follow-up repair recommendations.

10.6.1.4. Tight Spaces and Bottomed Out Pipes

- Small diameter crawlers that can be adjustable down to 6” with adaptable wheelsets for tight spaces
- Zoom pole camera when crawler entry is impossible
- In cases with a bottomed out pipe, we will either utilize the zoom camera, or deploy our custom floatable camera rigs with sonar, if greater than 8” of water are in the pipe

10.6.1.5. GIS Data Integration and Data Delivery:

- Integrate all data with COE’s Feature Facility ID
- Use CUES GraniteNET Export Format, ensuring seamless integration with Edmond’s GIS system
- Provide shapefiles and geodatabases linked to inspection records
- Include PACP XML, MPEG-4 video, and PDF reports per line segment

10.6.1.6. Data Formats

- GraniteNET Export
- PACP compliant MPEG-4 Videos
- Condition assessment reports (PDF)
- GIS Shapefiles/ Geodatabase (GDB)
- PACP certified XML files



10.6.1.7. Physical and Personnel Security

- Security Compliance:
  - Visible City-issued IDs and Hydromax USA-branded uniforms on all employees.
  - All trucks are locked and GPS-tracked
  - All data is securely stored in SOC 2 compliant format on Amazon Web Services Servers
  - Daily logs are maintained for all inspection activities
- Safety Standards:
  - Strict compliance with OSHA regulations and City safety protocols.
  - MUTCD guidelines will be utilized for all traffic control situations
  - On-site first aid and emergency incident reporting systems.

10.6.1.8. Customer Notification Process

- Hydromax USA understands the importance of customer awareness during field work and our approach includes:
  - Field crew will attempt direct contact with each address prior to entry on private property.
  - If no contact is made, we will leave a COE-approved door hanger explaining the project and our presence.
  - Notification schedules will Align with the deployment schedule, with hangers distributed 48 to 72 hours in advance of field work when feasible
  - Hydromax will work with COE staff to customize the door hanger content for public communication
- Operational Flexibility:
  - Ability to work outside standard hours, including nights, weekends, and holidays as required by the City.

SUMMARY

Hydromax USA is fully prepared to meet or exceed the City’s expectations for sewer inspection, cleaning, and reporting, ensuring regulatory compliance, operational excellence, and environmental protection throughout the project lifecycle.

SAM - Exhibit A

HYDROMAX USA QUALITY AND PROJECT EQUIPMENT

With a fleet of over 450+ vehicles, including combination vacuum and jetting cleaning trucks, Hydromax USA understands the value in investing in the appropriate equipment, and technology for our teams and dedicates the resources required to execute projects effectively and efficiently. HUSA maintains a wide array of equipment and tools, including easement reels, ATVs equipped with CCTV capabilities, self-propelled walk-behind CCTV carts, and the knowledge and experience to perform CCTV and cleaning in easements.

At our core, Hydromax USA is a condition assessment service provider. We custom fabricate floats and transport platforms to meet specific project needs. Since we are not an equipment manufacturer or representative, we are uniquely positioned to utilize all available best-fit technologies.

Our teams utilize CCTV cameras manufactured by Cues and other ancillary equipment from various manufacturers. For CCTV inspection, the Cues OZII camera is the workhorse of the industry and provides excellent imagery for a traditional pan-and-tilt camera.

Hydromax USA will deploy the necessary equipment and tools to complete this project, including manhole locating equipment and cameras, mainline TV cameras, cleaning equipment, specialized vehicles for off-road access, and anything else required to successfully accomplish all project requirements.

GPS Hardware and Software: Hydromax USA utilizes RTK GPS units throughout all U.S. operations to deliver reliable sub-foot performance. Our team uses the industry leading Esri ArcGIS software (v.11.2) for all spatial data analysis and collection. Data will be submitted to the City in an agreed upon geodatabase (.gdb) format or Esri Shapefile.

Field activities will be carried out using a full range of advanced inspection equipment including CCTV systems with high-intensity lighting, small-diameter push cameras, lateral launch mainline cameras, sonar inspection tools, and the acoustic Sewer Line Rapid Assessment Tool (SL-RAT™). All CCTV inspections will be performed by NASSCO PACP-certified operators using Granite.Net 2019 inspection software to ensure full compatibility with the City's asset management systems (Granite and Hansen). Inspections will meet PACP standards and include digital still images in .jpeg format, video capture of all manholes, and complete evaluations of pipe segments. If a line cannot be inspected from a single access point, reverse setups will be attempted at no additional cost to the City to guarantee complete inspection coverage. Additionally, an GIS map corrections that are required due to field conditions differing significantly from the mapped GIS will be documented and reported in accordance with City protocols.



Hydromax USA / H509
Ford E-450 CCTV Truck



SAMPLE

10.7.1. Methodology for Data Capture

SAM will utilize a comprehensive suite of equipment and software to support accurate and efficient data collection. High-accuracy GPS survey equipment, such as Trimble R12i GNSS Receivers equipped with Trimble TSC5 Data Collectors, will be used to capture precise spatial coordinates of stormwater infrastructure features. In areas where GPS signals are weak or obstructed, Trimble total stations will be employed to obtain accurate elevation and location data. Field crews will be equipped with iOS tablets to reference any existing GIS data and construction drawings.

SAM employs a variety of techniques to accurately capture stormwater infrastructure data. GNSS GPS receivers will be used to collect Graphic Data coordinates. The attributes captured during this process include spatial coordinates (X, Y, Z) as well as internal pictures for components such as inlets, culverts, channels, and outfalls. SAM will collect elevations, flow lines, in flow, outflow, and flow line of creeks and channels. Creeks and channels will have a GPS location taken approximately twenty-five feet from the nearest inflow and outflow structure. In the event the channel or trickle channel is made of impervious surface, SAM will obtain locations at the beginning, middle, bends, noticeable changes in slope, and ends of assets. Tops of basins will have GPS locations taken. If basins are dry, SAM will capture elevations and flow line. When basins contain water, SAM will notate and make a second attempt at a later date. Nongraphic data will be captured through field surveys. When accessible, each feature will be opened and assessed. During assessment, SAM will denote the required fields for pipe size, pipe material, invert depths (elevations of flow lines), and direction of flow. SAM staff is highly trained in data collection and routinely use survey level rods to obtain accurate invert depths. SAM will utilize domains to accelerate and ensure quality control for nongraphic data collection.



SAMPLE

10.7.2. Infrastructure Data Integration Plan

SAM will provide an on-site kick-off meeting and geodatabase design workshop with COE to start the project. The kick-off meeting is essential to developing open communication with the client and will help establish the guidelines and procedures of SAM for coordinating the project. During the kick-off meeting, SAM will collect existing GIS data and any construction drawings the COE is intending to provide. Other topics to be discussed are safety procedures, project timelines and milestones, work sector definitions, and public notifications. Throughout the course of this project SAM will organize bi-weekly meetings to discuss project progress, issues, and review any questions of comments. After initial review of the GIS data, where applicable, construction drawings will be georeferenced and embedded to enhance data accessibility and content. This data will be provided to field crews for reference of stormwater assets.

All condition assessment data will be organized within a GIS database to support informed decision-making by Edmond staff regarding maintenance and replacement priorities. The SAM team will coordinate with COE GIS staff to ensure updates are managed through Esri Distributed Geodatabase replication, with all data updates loaded into the geodatabase and synchronizations scheduled for COE review throughout the project's life cycle. Final CCTV inspection data, including videos and images, will be linked to the corresponding assets in the final datasets, ensuring a comprehensive and accessible record.

Effective Quality Assurance and Quality Control (QA/QC) procedures are crucial to the success and overall integrity of every project. Through the combined efforts of our project team, an emphasis on QA/QC is always a priority and each task executed has a system of checks and balances established for all personnel to follow. As part of the QA/QC process, SAM will conduct a redundancy check on five (5) percent of the features previously shot during the project. After GPS locating the features a second time, SAM will compile and process the results against all data sets and verify that the required accuracy tolerance is being met. To ensure SAM meets the vertical accuracy of +3 cm required by OED, all GPS unit accuracy's will be checked daily using the monument control before any field collection starts.

In the event an asset is unable to be located or is inaccessible, our project management team will work with client staff to ensure we handle each piece of data properly and clients have the final say in how data is represented. Our efforts to ensure the highest quality products and services. Any remaining unverified assets data will be supplemented with construction drawing information. If SAM in unable to use the construction drawings in the even they are nonstandard and are presenting unclear, or missing feature data, SAM employs a structured approach that balances accuracy with transparency. For features lacking precise location data, SAM applies judgment-based placement, using surrounding infrastructure and known data to determine reasonable locations. This multi-method approach ensures comprehensive and accurate data collection tailored to varying site conditions.

SAM - Exhibit A

10.7.3. Data Synchronization Strategy (ArcGIS Online Host ↔ City ArcGIS Enterprise Guest Collaboration)

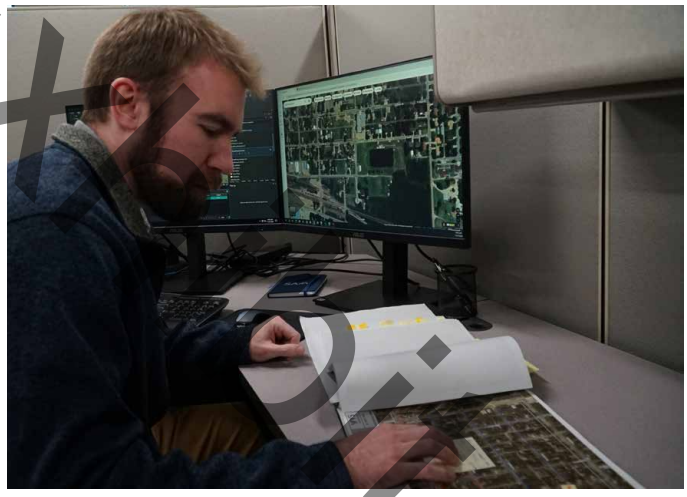
We will implement data integration using ESRI's distributed collaboration framework, with our ArcGIS Online (SAM) organization serving as the host and the City's ArcGIS Enterprise serving as the guest. Should the City already have a collaboration established with an ArcGIS Online organization, SAM will establish a partnered collaboration between the two ArcGIS Online organizations to access shared content.

This setup will enable secure, two-way synchronization between our hosted authoritative dataset and the City's Enterprise copy, allowing both organizations to keep current stormwater infrastructure data without direct database connections or manual file transfers.

Collaboration Framework

- Host – ArcGIS Online
  - Creates and manages the collaboration workspace.
  - Shares the authoritative stormwater infrastructure dataset as a copy into the collaboration group, configured for two-way editing.
  - Defines the synchronization schedule (e.g., hourly, daily).
- Guest – City ArcGIS Enterprise
  - Joins the collaboration workspace with Send and Receive permissions.
  - Receives and edits a synchronized copy of the dataset in its Enterprise portal.
  - We will assume that the Enterprise Geodatabase and network environment are appropriately set up for this kind of syncing.

Requirements for Creating Distributed Collaboration



1. ArcGIS Enterprise
   - Enterprise portal must be **10.5 or later.**
   - Portal must be **federated with ArcGIS Server.**
   - Portal must have **HTTPS enabled.**
   - Collaboration host must have **administrator privileges.**

2. ArcGIS Online
   - Organization must be **verified** and able to accept collaborations.
   - Admin access required to create the collaboration.

3. Security
   - SSL certificates must be valid and trusted.

4. Collaboration Configuration Process Overview
   - Create **collaboration** in Enterprise portal.
   - Add **ArcGIS Online organization** as a guest.
   - Define **workspace (group) within Portal** for sharing.
   - Configure **sharing direction** as **"send and receive"** or **"receive only"**
   - Set **sharing mode** to **Copy** (since you want data replicated). Ensure **"If unable to share as copies, share as references"** is **unchecked.**
   - Configure **sync schedule** (hourly, daily).

SAMPLE

5. Additional Notes
   - **ArcGIS Online serves as the host organization.**
   - **Schema Changes** are supported, but major changes can break sync (best to avoid).
   - SAM will need **access and editing privileges** to update the **copied feature service.**

Sharing Data from a Traditional Versioned Geodatabase (Using Version: 'Storm_SAM')

1. Data Considerations
   - Data must be in an **enterprise geodatabase** registered with ArcGIS Server.
   - Version **Storm_SAM** must exist and be accessible.

2. Service Publishing
   - Choose Storm_SAM version as the version for the service.
   - Publish the versioned data as a **feature service** from ArcGIS Pro or ArcMap.
   - **Enable sync capability** on the service (required for collaboration copy mode).

3. Portal Steps
   - Share the published feature service to the **collaboration workspace.**
   - Ensure the item is **owned by a user with collaboration permissions.**

4. Size & Performance
   - Ensure the dataset is **under 1 GB** for copy mode.
   - If larger, may **split data** into separate feature services.

5. Sync Behavior
   - Edits made in ArcGIS Online will **not** automatically reconcile/post back to default version automatically.

Proposed Workflow

1. Initial Setup
   - The selected ArcGIS Online organization will act as the host of the collaboration.
   - The City will receive and accept an invitation to join the collaboration.
   - The ArcGIS Online organizational admin will accept the City as a guest participant, completing the establishment of the collaboration. The dataset is shared as a copy, preserving schema, domains, and relationship classes for seamless integration.

2. Editing
   - Our GIS team will edit the ArcGIS Online copy directly.
   - The City may update its Enterprise copy as needed.

3. Synchronization
   - On the defined schedule, the collaboration workspace automatically exchanges edits between our ArcGIS Online copy and the City's Enterprise copy.
   - Updates flow in both directions without manual exports and imports.

SAM - Exhibit A

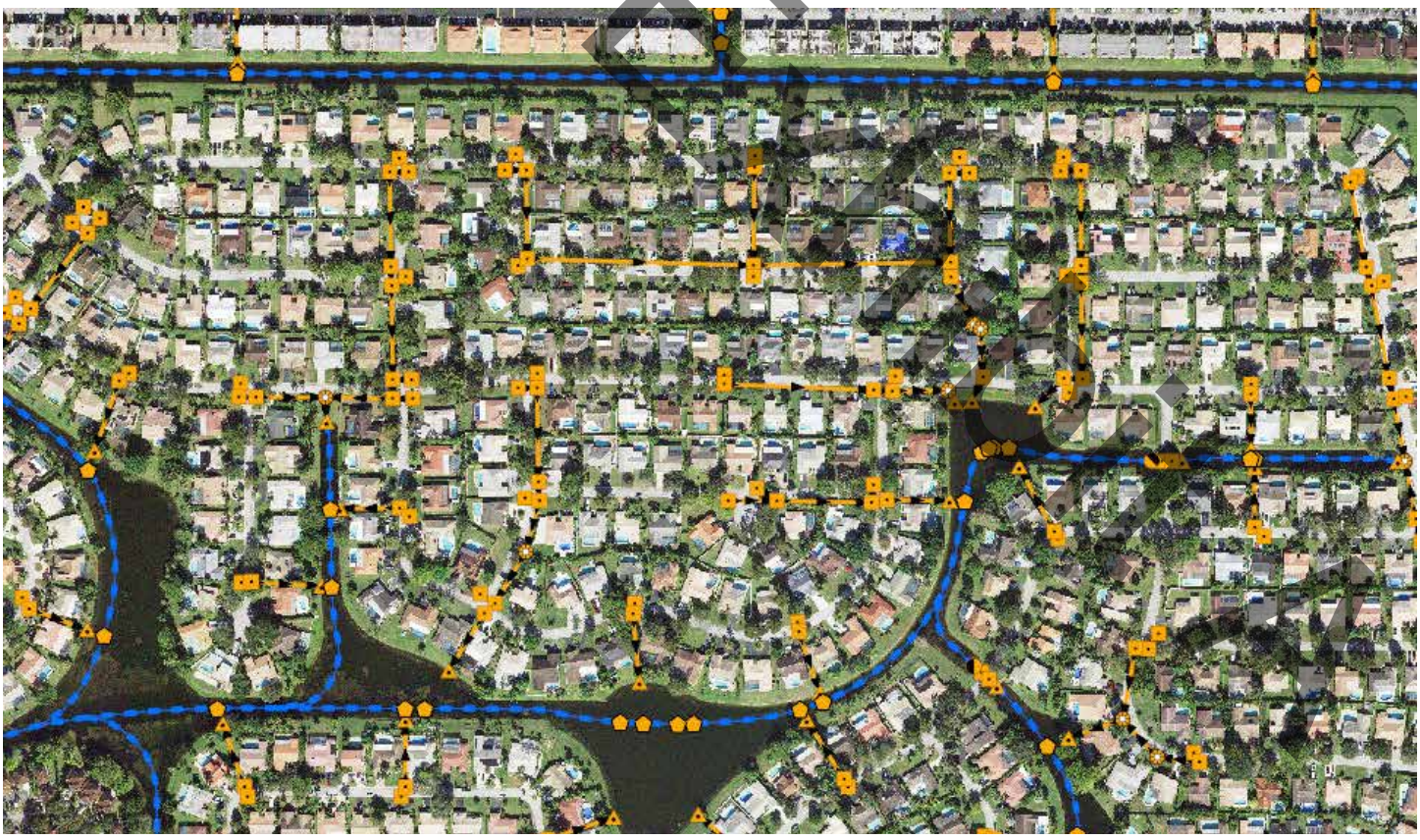
4. Conflict Handling
   - Collaboration synchronization uses a last-update-wins model at the feature level — the most recent edit to a feature replaces earlier edits during sync.
   - To minimize the risk of overwriting concurrent edits, we will manage conflicts operationally by:
     - Assigning clear editing responsibilities and/or geographic boundaries.
     - Coordinating editing schedules with the City.
     - Using post-sync QA/QC checks to detect and resolve any unexpected changes.

5. Pre-Sync Quality Control
   - Before synchronization, we will run automated QA checks on our ArcGIS Online dataset to confirm geometry, ensure required fields are populated, and confirm Facility ID accuracy.

Advantages

- Secure portal-to-portal synchronization without exposing the City's Enterprise database to direct edits.
- Host-controlled authoritative copy ensures a sole source of truth while enabling two-way editing.
- Operational conflict management aligns with collaboration's feature-level last-update-wins model.
- Offline capability available as needed, with preference for connected editing.
- Scalable for future phases using the same collaboration workspace and workflow.

If the city chooses not to use a collaboration for the project, it will provide SAM with a geodatabase replica for disconnected editing.



SAM - DRAFT

10.7.4. Linking CCTV Inspections and Media to the Existing GIS Dataset

CCTV inspection results will be integrated with the City's existing stormwater infrastructure GIS dataset by keeping a consistent and unique Facility ID across both the CCTV deliverables and the GIS feature layer. This ensures that inspection media can be accurately associated with the correct asset in both our ArcGIS Online authoritative copy and the City's synchronized ArcGIS Enterprise copy.



Integration Process

1. Facility ID Alignment
   - Each stormwater asset already has a unique Facility ID in the City's dataset.
   - All CCTV inspection files will reference this Facility ID in the file name, ensuring the GIS record and media file can be matched after synchronization.

2. Media File Name Attribute
   - A dedicated attribute (e.g., Media_File, or another agreed-upon name) will store the exact file name of the inspection image or video (e.g., FAC12345_VID01.mp4).
   - This field will be part of the collaboration-shared layer, so it synchronizes between our ArcGIS Online (host) and the City's ArcGIS Enterprise (guest).
   - Only the file name will be stored keeping the dataset lightweight and allowing the City to control final media storage and hyperlinking.

3. Media Hosting
   - All inspection media will be delivered to the City in an agreed-upon format and directory structure.
   - File names in the GIS attribute will match the delivered media exactly, allowing the City to integrate them into their preferred storage and access workflows.

4. Collaboration Synchronization
   - During scheduled collaboration syncs, any new or updated media file name values will be transferred from our ArcGIS Online authoritative copy to the City's Enterprise copy.
   - The City can then move these file names to their hosted media location for end-user access.

SAM - Exhibit A

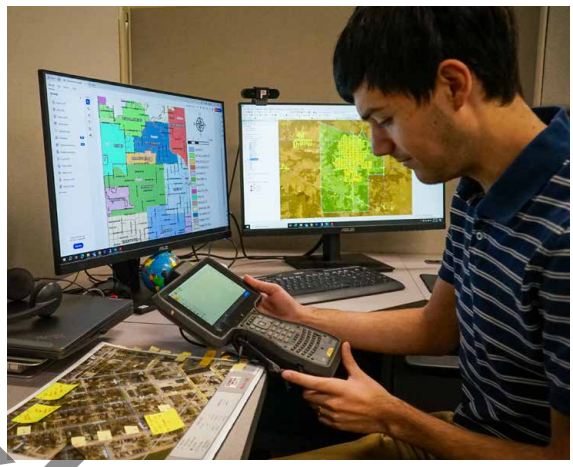
10.8.1. Data Deliverable Quality Assurance & Quality Control

SAM's effective Quality Assurance and Quality Control (QA/QC) procedures are crucial to the success and overall integrity of every project. Through the combined efforts of our project team, an emphasis on QA/QC is always a priority and each task executed has a system of checks and balances established for all personnel to follow. Elements of QA/QC can range from data collection checklists and GNSS tolerance controls to analyzing network connectivity within the software environment.

As part of the QA/QC process, SAM will conduct a redundancy check on five (5) percent of the features previously shot during the project. After GNSS locating the features a second time, SAM will compile and process the results against all data sets and verify that the required accuracy tolerance is being met.

Our project management team works with client staff to ensure we handle each piece of data properly and clients have the final say in how data is represented. Our efforts to ensure the highest quality products and services include:

- Custom QA/QC ArcGIS tools
- "Heads-up" QA/QC against base data or aerial photography
- Digital and hard-copy checks against field notes and as-built drawings
- Five (5)% redundancy check of all GNSS collected data
- Printed check plots for review by the city
- Assurance that end product shows complete connectivity
- Reviewing pipe videos for compliance and completeness
- Formulating quality control standards
- Maintaining data and check logs
- Overseeing inspection activity throughout the project cycle
- Daily reporting



Hydromax USA's Quality Assurance Program is a formal methodology designed to assess and continually monitor the quality of services provided to ensure the services are within specifications of the contract scope. Our quality assurance includes formal review of processed data, problem identification, corrective actions to remedy any deficiencies and evaluation of actions taken.

Quality Control involves defining the standard means and methods that data will be captured and then reviewed for accuracy. This includes automated tests for adherence to domain values, maintaining integrity of database schemas, and validating data based on best practices established by Hydromax for field inspections of water features. Hydromax will perform these tests as a combination of programmatic geoprocessing tools and manual review prior to submission to the City.

Data delivered from the field is processed through Hydromax USA's standardized QA/QC scripts to evaluate data against established HUSA program queries for data discrepancies. All data that is identified as exception data is reviewed by the program Operations Manager and reported to the Data Auditor prior to being released to the field for correction.

- Hydromax USA will perform this QA/QC analysis on all data recorded before the data is submitted.
- Hydromax USA will review, prior to each submission, the accuracy of the billing, contractual compliance, and internal procedural compliance.
- All non-conforming audit findings will be documented with Corrective Action Requests as appropriate.

SAM - Exhibit A

10.8.2. Management Plan



It is the policy of SAM's management to consistently assure very high quality deliverables in the geospatial profession. SAM recognizes the extreme importance of the data we supply and we expend significant resources designing and implementing quality control and training programs. This is a dynamic process and is continuous.

SAM has developed a comprehensive Master Quality Management Plan that all employees, including Field Technicians, Phase/ Field Managers, Project Managers, QA Technicians, and licensed professionals must follow to ensure consistency, accuracy, and completeness. All final deliverables will follow SAM's strict QA procedures and detailed checklists. SAM employees adhere to a rigorous formal system of performing field data collection, processing the collected data, as well as the review and documentation of information, regardless of the project size, location, or congestion of features. This proven procedure ensures an error-free work product that meets and exceeds the standard of care for the industry.

All projects are performed under the direction of, and reviewed by, a combination of GIS leadership that combine decades of experience in successful GIS consulting, development and implementation. SAM's procedures include multiple levels of quality assurance and control, numerous cross checks, and error trapping software for numerical data. All projects regardless of size or complexity are subject to the same Quality Management Plan. All employees have a specific role in assuring quality during the research, acquisition, development, and processing of their portion of the final deliverable. SAM's goal is error-free, on-time delivery of projects.

SAM's Project Managers understand that quality is not achieved by simply providing checklists at the completion of the project. The Project Manager will be responsible for overall coordination of the quality management efforts. For each task order, they will assign specific responsibility for completing checklists and for ensuring that individuals assigned possess the skills matching the project complexity and carry out the intent of our QA/QC policy and procedures.

SAM's checklists and QA/QC documents serve as quality assurance during the field and initial review processes. They each contain dozens of individual quality related potential problems and issues. They serve as quality control during the next stage of product development with a separate review of each item by a different person.

Hydromax USA's Company Structure ensures timely and efficient project execution through a well-defined organizational structure, proven project management methodologies, and a dedicated team of experienced professionals. This foundation is supported by standardized equipment, advanced technology, and consistent operational protocols. Through continuous recruiting and rigorous training programs, Hydromax USA successfully scaled its field operations from 5 to 49 crews in a few months for Houston Water. This was achieved by leveraging field crews nationally, pulling experienced technicians from two-man crews and strategically splitting them into new teams supported by our robust recruiting and training program.

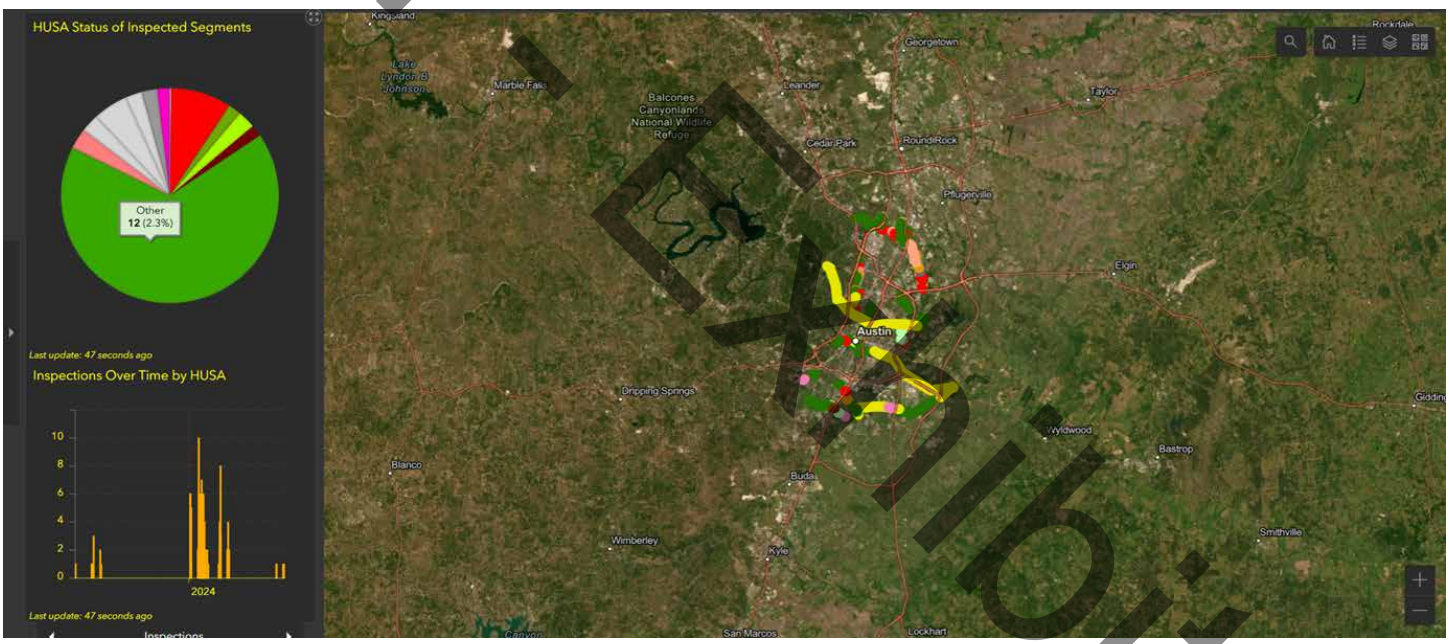
At the core of our execution strategy is a Project Management Team, led by a seasoned Project Manager who serves as the single point of contact for all client communications and oversees scheduling, resource allocation, quality assurance, and progress tracking. The Project Manager is supported by Field Supervisors who coordinate daily field activities, manage crews, and ensure work is completed safely, accurately, and on schedule. Our Field Crews consist of certified and highly trained technicians with extensive experience in infrastructure assessment. Crews are strategically assigned based on project size, complexity, and geographic location to maximize efficiency and minimize downtime.

SAM-Texhnia

We utilize advanced scheduling software and GIS-integrated asset management tools to streamline workflows, monitor project milestones, and maintain real-time visibility into field activities. These tools enable proactive issue resolution and rapid response to any unforeseen challenges, reducing delays and enhancing overall productivity. To further ensure project success, our structure includes dedicated support from the Operations, Safety, and Quality Control teams, who provide oversight and enforce compliance with safety protocols, technical standards, and client specifications throughout the duration of the project. This comprehensive and collaborative structure enables us to deliver projects on time, within budget, and to the highest standards of quality and service.

WEB-BASED PROJECT MANAGEMENT DASHBOARD

Hydromax USA will provide a web-based application capable of providing the Utility with the following real-time program metrics and information. Our dashboard is a comprehensive, web-hosted platform designed to provide real-time updates and actionable insights from field assessments of infrastructure. This platform will integrate the Utility's initial asset data with data collected during the assessment program, enabling seamless visualization and interaction with specific assets through various dashboard elements. The data platform will provide field technicians with a QC embedded data collection interface to ensure quality of the data and will provide the Utility with understandable metrics and project health statistics, supporting informed decision-making and proactive management.

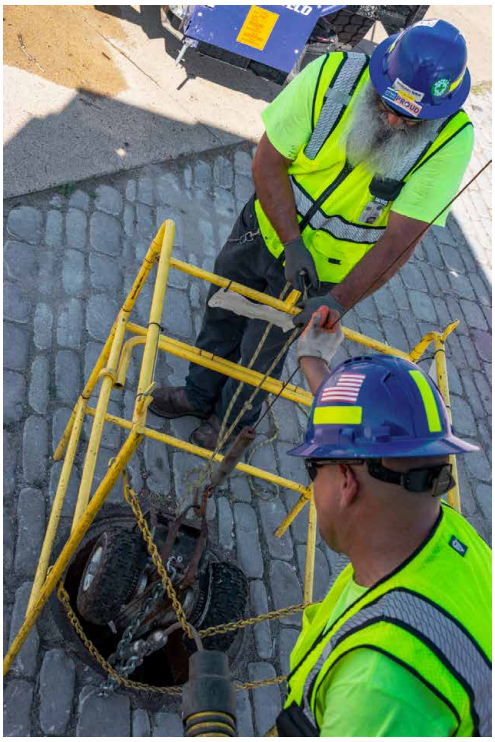


Key Dashboard Features:

- Progress Tracking: Detailed summary of expected pipe segments throughout the program, as well as actual inspections performed.
- Aggregated Operational Data: Compilation and display of information regarding the operating condition and other relevant operational data of sewer pipe assessed by the service provider.
- Interactive Asset View: Capability to view the location and attributes of individual pipe segments or groups of pipe segments interactively.
- Year-over-Year Assessment Comparison: Tools to compare assessment data year-over-year to track changes in the system over time.
- Spatial Work Assignment: Ability for Utility to assign work through a spatial selection process within the application.
- Multimedia Content Delivery: Feature-driven multimedia content delivery for appurtenance information, enhancing the visualization and understanding of asset data.

SAMPLE EXHIBIT A

PLANNING AND IMPLEMENTATION TASKS



Hydromax USA proposes a comprehensive and structured approach to sewer inspection, cleaning, environmental protection, data transfer, property owner notification, and GIS map corrections, fully aligned with City specifications. To ensure a successful start, Hydromax USA will begin the project with a kickoff meeting attended by our project management and field staff, along with SAM and City representatives. This meeting will serve to review project expectations, communication protocols, safety requirements, scheduling, data management procedures, and any specific needs or concerns from the City. Our goal is to ensure full alignment before field operations commence.

Hydromax USA will coordinate closely with SAM's survey crews, following their fieldwork to ensure that all mapped assets are accurately located and traced prior to the start of CCTV inspections. This process will minimize inaccurate records during the inspection phase, reduce the likelihood of mismatched facility IDs, and ensure efficient integration with the City's GIS system. Any discrepancies identified during follow-up will be resolved collaboratively with SAM and the City before recording inspection footage. All CCTV inspections will be performed by NASSCO PACP-certified operators using a GraniteNET compliant inspection software to ensure full compatibility with the City's asset management systems. Inspections will meet PACP standards and include digital still images in .jpeg format, video capture of all structures, and complete evaluations of pipe segments. If a line cannot be inspected from a single access point, reverse setups will be attempted to guarantee complete inspection coverage. Additionally, any GIS map corrections that are required due to field conditions differing significantly from the mapped GIS will be documented and reported in accordance with City protocols.

For shorter inlet pipes, Hydromax USA recommends utilizing a Zoom pole camera to complete these inspections. This approach will minimize traffic disruptions and maximize the budget for the project.

Property owners will be notified in advance of any activities affecting access or services, following the City's notification standards. Hydromax USA will also identify and submit corrections for any discrepancies between existing GIS data and actual field conditions, ensuring the City's asset information remains accurate and up to date.

PROJECT MANAGEMENT SUPPORT

Hydromax USA employs a critical path project approach utilizing PMI principles and philosophies. This comprehensive approach is not just employed by the project manager who owns it, but each member of the support team and field crew to provide superior assessment service. This is designed to ensure a continuum of the following:

- Management of key decisions and milestones during this project.
- Preparation of initial project development plan (including the schedule of work tasks and key personnel to perform the work in the field to meet the milestones and objectives)
- Coordination of communications and meetings with the City of Edmond as needed or requested to review technical concepts and alternatives and coordinating activities with the project team.
- Oversight of the execution and development of the project deliverables.

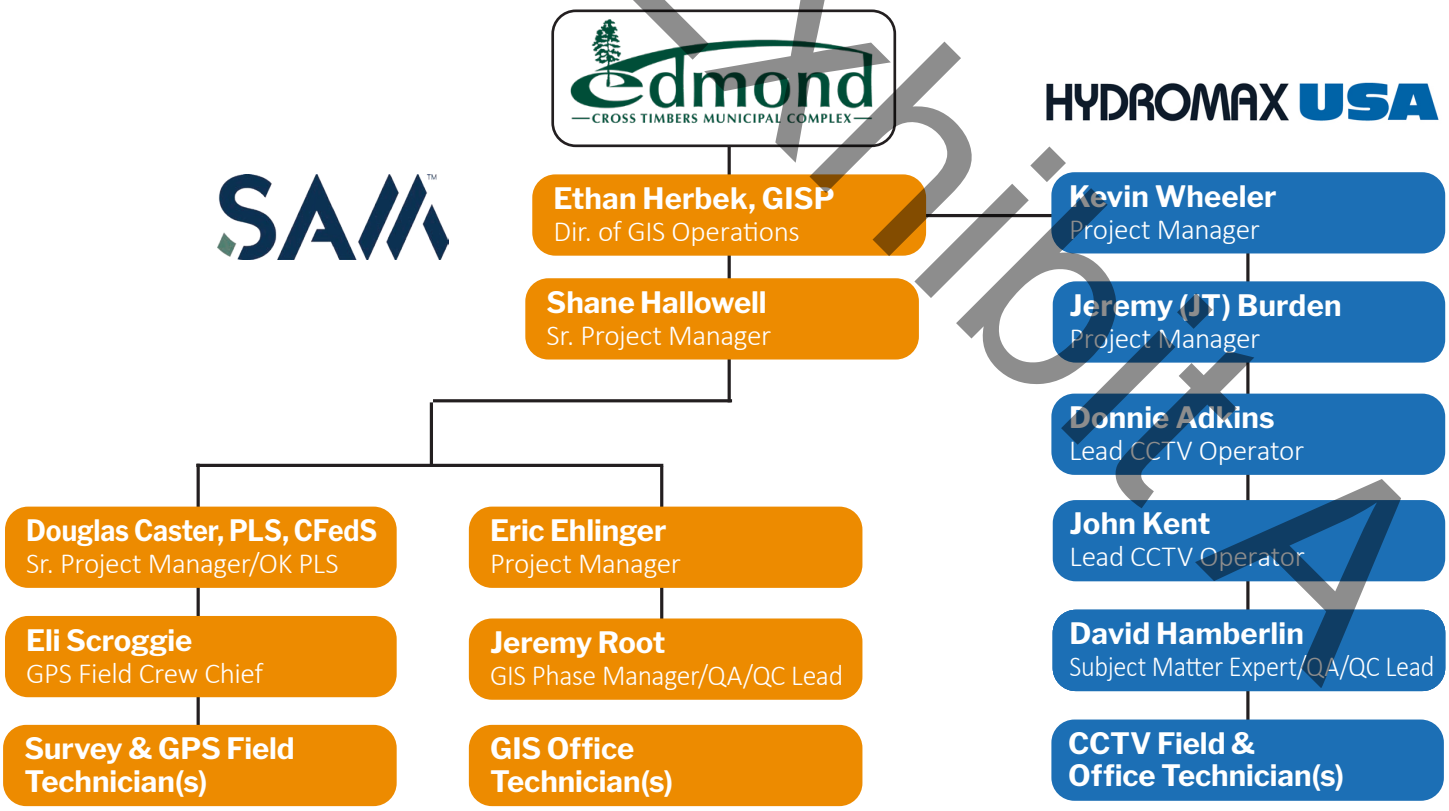
SAM Exhibit A

10.9 Project Personnel

SAM's "client-focused" approach and experience in project management has been the cornerstone of success in a market that does not expect, but rather demands, a high level of service. The proposed team members for this project have a unique combination of utility infrastructure knowledge, GIS data creation, project management, data collection, QA/QC procedures and GIS mapping. All project requirements and specifications will be met by the key personnel identified in this section. The completion of hundreds of utility mapping projects by SAM across the country demonstrates SAM's dedication to information exchange and open communication throughout the project. At the foundation of this approach is our proactive management philosophy, which anticipates challenges, revolves around listening and is committed to partnering. On every project, SAM utilizes a team approach and encourages open communication channels with the client and their stakeholders to reach a successful outcome.

To maintain the proposed project schedule and quality control targets, SAM will organize the project team under the leadership **Ethan Herbek, GISP, Director of GIS Operations**. Ethan will ensure the continuity of management and team member workflow, as well as cost and quality control through completion, delivery and acceptance. After project commencement, **Senior Project Manager Shane Hallowell** will serve as the focal point for all communication between SAM and Edmond regarding the project and will oversee all aspects of the inventory and condition assessment. This includes verification and correction within the Esri geodatabase structure, GNSS data collection, establishing cost controls, quality control and providing final deliverables and training. Internal metrics and procedures are in place for projects of all sizes and complexities to ensure that expectations are exceeded and timelines and budgets are met.

The proposed team draws on over 170+ years of combined experience in Esri GIS technologies, utility GNSS data collection, CCTV data acquisition, and project management. The resumes that follow, show the key staff member and their proven accomplishments that demonstrate SAM's commitment to providing the best geospatial solutions to our clients.



SAM Exhibit A

Ethan Herbek, GISP • Dir. of GIS Operations

Ethan Herbek is experienced in GIS data development and GPS field data collection, serving in multiple management roles that include Municipal Project Supervisor, Field Supervisor, Utility GIS Specialist and Quality Control Manager. Ethan is capable of supervising and conducting all aspects of utility GIS projects, from conceptual design and GPS field data collection to GIS data integration and training. His experience spans across multiple project sectors, including local government, utilities, state and federal agencies, energy companies and private enterprises. This comprehensive understanding of GIS ensures SAM employs time-saving methods and technology to make processes more efficient. This not only provides cost savings to clients, but eliminates data errors and data loss throughout the lifecycle of the project.

Ethan is responsible for project oversight to align SAM's operational team to the contract specifications, including the administration of resource requirements, project timelines and milestones, and budgetary demands. On a regular basis, Ethan meets with project managers for project health checks against contract specifications. Additionally, every project completed by SAM will have a final review from Ethan as part of Quality Assurance measures to ensure that project deliverables meet the quality standards specified in the contract.

EXPERIENCE
- SAM: 21 years
- Professional: 21 years

EDUCATION
B.S. Geography with GIS minor, NWMSU- Maryville, MO

CERTIFICATIONS
- GIS Professional (GISP) #71950
- National Association of Sewer Service Companies (NASSCO) - Completed Pipeline, Lateral and Manhole Assessment Certification Programs
- OSHA Certified in Occupational Safety and Health Training & Confined Spaces and Traffic Control for Field Engineering & Surveying

50% of Time Anticipated
Maryville, MO Office Location

Project Experience

Stormwater Mapping, Condition Assessment and CCTV Data Integration for Englewood, CO
As GIS Operations Manager, Ethan led all SAM operations in the GPS mapping, inspection and GIS integration of the stormwater utility infrastructure for the City of Englewood. SAM employed RTK survey-grade collection methods using Trimble R12i GNSS Receiver(s) to locate the city's stormwater features as contained in the defined project limits. SAM utilized a Trimble TSC5 Data Collector with Trimble Access software in order to streamline the information collected at each stormwater structure. Additionally, SAM integrated CCTV data into the city's map so locations, pictures, and videos were attached to the GIS map. Utilizing NAASCO certified staff, SAM analyzed the data and provided recommendations as to pipe rehab work to the city. SAM will begin phase 2 this year.

Storm Sewer GPS Mapping and GIS Development for Bondurant, IA
As GIS Operations Manager, Ethan Herbek led SAM's GIS staff in the GPS mapping, inspection and GIS development of the storm sewer utility infrastructure for the city of Bondurant. The SAM field crews utilized RTK survey-grade methods to GPS map and collect attribute data on the storm sewer utility network and also the sanitary sewer and water distribution networks. The information was imported into a web-based GIS program to allow Bondurant staff to view, edit and maintain all utility data from any computer or mobile device. The city can now operate from a single source GIS across multiple users in various departments, working seamlessly across a user-friendly GIS tool.

Storm Sewer & MS4 GIS Development services for St. Joseph, MO
As GIS Operations Manager, Ethan Herbek oversaw SAM's GIS department through a series of MS4 and storm sewer projects for the City of St. Joseph since 2007 through renewed Master Agreement contracts. Over the years, SAM has provided GPS mapping, inspection and GIS development of 10,000+ utility features for use in engineering design projects. SAM has also assisted the city's utility department in developing reports and processes to improve their compliance on a federal consent from the Environmental Protection Agency.

SAMPLE Exhibit A

Shane Hallowell • Sr. Project Manager

Shane Hallowell has a combined 15 years of experience in GIS development and management for municipalities and utilities. His career has taken him through many positions in the industry including field technician, office technician, city GIS coordinator and project manager. These different positions have allowed him to develop an understanding and skill set catered towards managing all phases of GIS development. His experiences of collecting field data, developing datasets in the office, performing QA/QC processes and working with project teams allows him to lead GIS projects from inception through delivery.

Shane leverages his knowledge of all levels of GNSS equipment and data collection technologies along with City government procedures to run utility mapping projects successfully. He maintains OSHA certifications and has a full understanding of the responsibility of ensuring the safety of field staff and pedestrians while crews are in the field. Shane's use of Esri software throughout his career leads him to make the decisions needed to produce proper workflow of field-office data and GIS solutions for the client.

Shane is responsible for field and office team coordination, client interaction and project budget management. He oversees all quality assurance processes prior to delivery and assists in final data rollout and GIS solution training.

EXPERIENCE
- SAM: 8 years
- Professional: 15 years

EDUCATION
B.S. GIS, NWMSU - Maryville, MO
Master Certificate in GIS, NWMSU

Technical Expertise
- RTK survey-grade and mapping grade GPS data collection
- ArcGIS Enterprise
- ArcGIS Online
- Project Management
- QA/QC and technical support protocols
- Geodatabase design / maintenance

50% of Time Anticipated
Merriam, KS Office Location

Project Experience

Stormwater Inventory Mapping - Mount Holly, NC - 2022
As Sr. Project Manager, Shane led SAM's specialized utility GIS field crews utilizing RTK survey-grade GPS to map all stormwater features in the city. Beyond the horizontal and vertical GPS locations, every structure lid was opened and SAM crews performed a top-side condition assessment and inspection in order to support the city's regulatory compliance efforts. Based on the geodatabase designed for this project, SAM crews inventoried each structure, and collected attributes including depth, invert elevations, flow direction, pipe size, type, material and grate measurement. This process enables SAM clients to receive a turnkey data set that is ready for asset management and engineering. Additionally, SAM mapped and collected data for all conveyance systems that led to outfalls that were 36 inches or larger and mapped locations of all the city's stormwater drainage systems.

Stormwater Mapping - Englewood, CO - 2023-Present
Shane served as the Sr. Project Manager for this project. In 2023, SAM was selected based on qualifications to perform phase one of a stormwater mapping project for the City of Englewood, CO. With a current GIS program, staff and asset management in place, the City needed support to collect and develop a comprehensive and accurate stormwater inventory. Field crews at same utilized RTK survey-grade equipment to collect x,y,z locations on stormwater structures, top-side inspections were performed and attributes collected in the field. The city provided CCTV data on the stormwater areas that were mapped by SAM. This data was integrated into the map so locations, pictures, and video were attached to the GIS map. Utilizing NAASCO certified staff, SAM analyzed the data and provided recommendations as to pipe rehab work to the city. In 2024, The City of Englewood approved the extension of SAM's contract to complete phase two of the project which it currently underway.

SAM - Exhibit A

Eric Ehlinger • Project Manager

Eric Ehlinger is a project manager with extensive experience in land surveying, GIS data collection and management, utility inventories, and sanitary sewer evaluation surveys. He oversees field operations for various types of surveys, including topographic, hydrographic, large and small construction layout, as-built, ALTA, boundary, and mortgage surveys. He has performed elevation certifications/flood certifications, and property research including deeds, plats, tax maps, and zoning. He has considerable experience with MS4 permitting compliance, NPDES projects, stormwater inventories, and sanitary sewer inventories. Eric also has proficiency with several software packages including Esri's GIS Suite, Trimble Business Center (TBC), AutoCAD, GraniteNet, Microsoft Office Suite.

EXPERIENCE
- SAM: 4 years
- Professional: 22 years

EDUCATION
Computer Science, Piedmont Technical College

Technical Expertise
- NASSCO, PACP, MACP
- IDLE training for FAA Circulars for airside surveys and data processing
- OSHA 10 Hour Certification
- DHEC: Certified Erosion Prevention and Sediment Control Inspector
- Confined Space Certified
- Flagger Certification

50% of Time Anticipated
Atlanta, GA Office Location

Project Experience

Asset Management Program - Oklahoma City, OK
Before joining SAM, Eric served as the Phase Manager for a project with the Oklahoma City Water Utilities Trust (OCWUT), which oversees a large sanitary sewer system and sought to improve its efficiency and longevity through a comprehensive asset management program. To support this initiative, OCWUT partnered with a vendor that conducted condition assessments of the sewer infrastructure and leveraged existing software tools, including Cityworks AMS, ArcGIS, and Innovyze InfoMaster. Technicians performed detailed inspections and analyzed the data to evaluate the likelihood and consequence of failure across the system. Based on these findings, the team developed a risk-based model to prioritize capital improvements, an annual operations and maintenance work plan, a preventive maintenance program targeting grease, roots, and flushing, and a long-term Capital Improvements Program that is updated annually.

Priority Areas Sewer Assessment and Rehabilitation Program (PASARP) - DeKalb County Department of Watershed Management, Multiple, Georgia
Phase manager on a three-tiered approach to sewer assessment work in 19 designated areas of DeKalb County to assist the County with meeting Consent Decree requirements, and to establish a sustainable program for continuous sewer assessment and rehabilitation. The three tiers of work entailed a full range of assessment, inspection, and rehabilitation activities that include manhole and pipeline condition assessments; smoke/dye and acoustical testing; pole/zoom camera, CCTV, and Sonar/TISCIT inspections; by-pass pumping; and other advanced technologies as required to adequately evaluate the condition of the County's sewer systems.

Citywide Water and Sewer System Inventory - City of Powder Springs, GA
Phase Manager for this citywide inventory for Powder Springs. The scope of work included the survey and condition assessment of 2,000 manholes, over 8,000 water meters and valve, and 390,000 linear feet of pipe. SUE (subsurface utility engineering) services were used for waterline location, and as-built construction plans were used to augment the completion of the system. The final deliverable included a fully connected geometric network within an ArcGIS platform.

Citywide Stormwater Infrastructure Inventory Mapping - City of Tallahassee, FL
Contracted to provide a citywide inventory of their stormwater utility system. Task items included a Project Management Plan, project communications website, field and GIS procedures manuals, geodatabase design documentation, personal geodatabase deliverables, a problem resolution website, project training, and RTD GPS utility mapping for 65 square miles.

SAM EXHIBIT A

Douglas J Caster, PLS, CFedS

Senior Project Manager/OK PLS

Doug Caster has 25 years of management experience. He is skilled in developing and leading surveying departments in the surveying industry. Doug has 32 years of surveying experience, with 24 years of complex bridge and structures and heavy highway construction expertise. During this time, he has managed multiple Kansas and Missouri projects for highway engineering design, private site development, large scale boundaries and electric transmission and generation projects. His experience includes right of way determinations, both highway and railroad, property boundary line retracement surveys, easement and deed description preparations, ALTA/NSPS Land Title Surveys, topographic map preparations, client contract negotiations, and preparation of fee estimates.

EXPERIENCE
- SAM: 2 years
- Professional: 32 years

EDUCATION
AAS in Land Surveying Technology, Oklahoma State University

REGISTRATIONS
- Land Surveyor
- #1505, KS
- #2008016656, MO
- #2048, OK
- #15824, SD
- #20100526, WA
- #30050, NM
- #40664, ND
- CFedS-1517

50% of Time Anticipated
Merriam, KS Office Location

Project Experience

Center Hill Dam Spillway Gates | Smithville, TN (2023)
Doug served as the PLS for this project. Developed means and methods, and provided on-site management and supervision, for survey crews performing high-accuracy measurements for as-built survey of existing spillway tainter gates for shop drawings and fabrication of replacement tainter gates.

US 60 Cumberland River Bridge | Smithland, KY (2023)
Doug served as the PLS for this project. Responsible for geometric as-built measurements throughout construction of truss and upon completion. Performed scan of Cumberland River channel at truss span destination to ensure proper channel width for barge navigation of truss. Performed as-built of substructure prior to truss erection and monitored truss during strand jacking and final positioning.

Montlake to Lake Washington Blvd I/C and Bridge (SR520) Replacement Project | Seattle, WA (2023)
Doug served as the PLS for this project. Hired survey staff, determined survey equipment needs, and developed survey plan. Precalculated all critical points for temporary and permanent works. Managed subcontracted survey firm and in-house project surveying staff. Reviewed and approved weekly submissions to WSDOT. Calculated and submitted theoretical bottom of deck grades to design engineer for approval.

Washington State Convention Center | Seattle, WA (2022)
Doug served as the PLS for this project. Developed survey plan. Vetted and secured union-required survey staff and equipment. Performed survey QC audits. Assessed project survey requirements and corrective actions as necessary. Documented and established methods and deadlines for corrective measures throughout project. Verified layout calculations.

Edmonton Valley Light Rail Tawatina Bridge | Edmonton, Alberta, Canada (2021)
Doug served as the PLS for this project. Per contract requirements, developed and implemented project survey plan specific to construction of cable-stayed structures. Met with ownership and design engineers for approval of survey plan. Worked with field engineers to establish step-by-step survey process for advancing and positioning traveling formwork. Met with subcontracted surveyors and provided instruction and survey methodology specific to cable-stayed structures per contract requirements. Consulted with field engineering staff regarding project-specific questions throughout construction.

DRAFT Exhibit A

Mitchell Bradshaw • Field Operations Lead

Mitchell Bradshaw has more than 11 years of GPS field data collection and utility inspection experience with SAM. His knowledge in GPS data collection procedures and quality control measures ensures accuracy and efficiency on every project. As a Field Operations Lead, Mitchell trains and supports all GPS Field Technicians in utilizing RTK survey-grade and mapping-grade GPS equipment. He uses his unique career knowledge to assist project teams to develop the right plan for each project.

On a daily basis, Mitchell takes support calls from field staff, coordinates safety meetings, monitors equipment and fleet usage, and assists project teams with data development. Mitchell also uses his field experience with various GPS/GNSS equipment to train clients on best practices of GIS data maintenance.

EXPERIENCE
- SAM: 11 years
- Professional: 11 years

CERTIFICATIONS
National Association of Sewer Service Companies (NASSCO) - Completed Pipeline, Lateral and Manhole Assessment Certification Programs
Certified NC Stormwater SCM Inspection & Maintenance Professional- No. 4884

TECHNICAL EXPERTISE
- RTK survey-grade GPS hardware - Trimble, Sokkia, Topcon
- Data collection software - Trimble Access, Carlson SurvCE & PC
- ArcGIS Field Maps

50% of Time Anticipated
Maryville, MO Office Location

Project Experience

Stormwater Mapping, Condition Assessment and CCTV Data Integration for Englewood, CO
As Field Operations Lead, Mitchell Bradshaw led all SAM operations in the GPS mapping, inspection and GIS integration of the stormwater utility infrastructure for the City of Englewood. SAM employed RTK survey-grade collection methods using Trimble R12i GNSS Receiver(s) to locate the city's stormwater features as contained in the defined project limits. Additionally, SAM integrated CCTV data into the city's map so locations, pictures, and videos were attached to the GIS map. Utilizing NAASCO certified staff, SAM analyzed the data and provided recommendations as to pipe rehab work to the city. SAM will begin phase 2 this year.

Storm Sewer GPS Mapping and GIS Development for Bondurant, IA
As GPS Field Crew Chief, Mitchell Bradshaw led SAM field crews in the GPS mapping and inspection of the storm sewer utility infrastructure for the city of Bondurant. The SAM field crews utilized RTK survey-grade methods to GPS map and collect attribute data on the storm sewer utility network and also the sanitary sewer and water distribution networks. The information was imported into a web-based GIS program to allow Bondurant staff to view, edit and maintain all utility data from any computer or mobile device. The city can now operate from a single source GIS across multiple users in various departments, working seamlessly across a user-friendly GIS tool.

Sanitary Sewer and Storm Sewer GPS Mapping and Inspection for NASA
As GPS Field Crew Chief, Mitchell Bradshaw led SAM field crews in the GPS mapping and inspection project of NASA Langley Research Center. SAM utilized RTK survey-grade technology to map both position and elevation of all features. 360 degree photography was also provided with photos linked to each feature in the GIS. The final deliverable was a geodatabase in the Esri environment complete with network connectivity, illustrated flow direction, slope and exact measurement, and unique feature class data layers as requested by NASA.

Storm Sewer & MS4 GIS Development services for St. Joseph, MO
As GPS Field Crew Chief, Mitchell Bradshaw led SAM field crews through a series of MS4 and storm sewer projects for the City of St. Joseph since 2007 through renewed Master Agreement contracts. Over the years, SAM has provided GPS mapping, inspection and GIS development of 10,000+ utility features for use in engineering design projects. SAM has also assisted the city's utility department in developing reports and processes to improve their compliance on a federal consent from the Environmental Protection Agency.

SAM Exhibit A

Eli Scroggie • GPS Field Crew Chief

Eli Scroggie has six (6) years of GPS field data collection and utility inspection experience with SAM. His knowledge in GPS data collection procedures and quality control measures ensures accuracy and efficiency on every project. As GPS Field Crew Chief, Eli trains all GPS Field Technicians in utilizing RTK survey-grade and mapping-grade GPS equipment and proper utility inspection and data collection methods. He is knowledgeable at identifying key components of all utility networks. Knowing critical asset types is essential in developing a clean and accurate geodatabase.

Eli leads GPS field crews to collect utility infrastructure data for the project. He oversees data collection and inspections and field check all collected data prior to processing that information in the office. Additionally, Eli maintains communication with city staff when providing on-site GPS and GIS services.

EXPERIENCE
- SAM: 6 years
- Professional: 6 years

CERTIFICATIONS
- National Association of Sewer Service Companies (NASSCO) - Completed Pipeline, Lateral and Manhole Assessment Certification Programs

TECHNICAL EXPERTISE
- RTK survey-grade GPS - Sokkia GRX1 and GRX 2, Topcon HiPer SR
- Mapping-grade GPS - Trimble Geo7X and R2
- Carlson SurvCE & PC, Collector, ArcPAD

50% of Time Anticipated Maryville, MO Office Location

Project Experience

Stormwater Mapping, Condition Assessment and CCTV Data Integration for Englewood, CO

As GPS Field Crew Chief, Eli provided boots on the ground for all the GPS mapping and inspection of the stormwater utility infrastructure for the City of Englewood. SAM employed RTK survey-grade collection methods using Trimble R12i GNSS Receiver(s) to locate the city's stormwater features as contained in the defined project limits. Additionally, SAM integrated CCTV data into the city's map so locations, pictures, and videos were attached to the GIS map. Utilizing NAASCO certified staff, SAM analyzed the data and provided recommendations as to pipe rehab work to the city. SAM will begin phase 2 this year.

Storm Sewer GPS Mapping and GIS Development for Bondurant, IA

As GPS Field Crew Chief, Eli supported in the field data collection processes for the City of Bondurant. SAM's GIS staff GPS provided services for mapping, inspection and GIS development of the storm sewer utility infrastructure for the city of Bondurant. The SAM field crews utilized RTK survey-grade methods to GPS map and collect attribute data on the storm sewer utility network and also the sanitary sewer and water distribution networks. The information was imported into a web-based GIS program to allow Bondurant staff to view, edit and maintain all utility data from any computer or mobile device. The city can now operate from a single source GIS across multiple users in various departments, working seamlessly across a user-friendly GIS tool.

Storm Sewer & MS4 GIS Development services for St. Joseph, MO

As GPS Field Crew Chief, Eli provided boots on the ground through a series of MS4 and storm sewer projects for the City of St. Joseph since 2007 through renewed Master Agreement contracts. Over the years, SAM has provided GPS mapping, inspection and GIS development of 10,000+ utility features for use in engineering design projects. SAM has also assisted the city's utility department in developing reports and processes to improve their compliance on a federal consent from the Environmental Protection Agency.

GPS Data Collection and GIS Development for Fairfax, IA

As GPS Field Crew Chief, Eli provided boots on the ground to GPS locate and map all features within the Fairfax's water, sanitary sewer and storm sewer utility networks using RTK survey-grade methods. Attribute data for all features was collected and all data was integrated into a web-based GIS platform for the City to utilize for asset management capabilities across any computer or mobile device.

SAM - Exhibit A

Jeremy Root • GIS Phase Manager/QA/QC Lead

Jeremy Root is a GIS Phase Manager at SAM who is responsible for overseeing the digitizing and field coordination on utility projects, while also providing technical support for clients on their web-based GIS platforms. Jeremy was also instrumental in standardizing how utility networks are drawn in order to ensure data consistency on all deliverables.

Jeremy has experience in field data collection and utility inspection, utility network digitizing, quality control processes, and managing GIS resources for clients. He leverages this knowledge in his daily operations and trains new technicians in all the processes. He also trains and supports clients across the local government, energy and utilities sectors.

His experience covers a broad range of projects, including water distribution, sanitary sewer, storm sewer, electric and gas. He utilizes multiple Esri products such as ArcGIS Pro and ArcGIS Desktop 10.x, along with Trimble Business Center for field data processing.

EXPERIENCE
- SAM: 4 years
- Professional: 4 years

EDUCATION
B.S. Environmental Geography, NWMSU- Maryville, MO

TECHNICAL EXPERTISE
- Esri ArcGIS Desktop 10.x
- Esri ArcGIS Pro
- Esri ArcGIS Online
- Trimble Business Center
- Geocortex
- Trimble GPS technology

50% of Time Anticipated
Merriam, KS Office Location

Project Experience

Stormwater Mapping, Condition Assessment and CCTV Data Integration for Englewood, CO
As GIS Phase Manager, Jeremy led the GIS integration of the stormwater utility infrastructure for the City of Englewood. SAM employed RTK survey-grade collection methods using Trimble R12i GNSS Receiver(s) to locate the city's stormwater features as contained in the defined project limits. SAM utilized a Trimble TSC5 Data Collector with Trimble Access software in order to streamline the information collected at each stormwater structure. Additionally, SAM integrated CCTV data into the city's map so locations, pictures, and videos were attached to the GIS map. Utilizing NAASCO certified staff, SAM analyzed the data and provided recommendations as to pipe rehab work to the city. SAM will begin phase 2 this year.

GPS Data Collection and GIS Development for Fairfax, IA
GIS Phase Manager: SAM was selected by the city to GPS locate and map all features within the City's water, sanitary sewer and storm sewer utility networks using RTK survey-grade methods. Attribute data for all features was collected and all data was integrated into a web-based GIS platform for the city to utilize for asset management capabilities across any computer or mobile device.

Storm Sewer GPS Mapping and GIS Development for Bondurant, IA
As GIS Phase Manager, Jeremy supported all work done in the GIS development and data integration for Bondurant. SAM's GIS staff GPS provided services for mapping, inspection and GIS development of the storm sewer utility infrastructure for the city of Bondurant. The SAM field crews utilized RTK survey-grade methods to GPS map and collect attribute data on the storm sewer utility network and also the sanitary sewer and water distribution networks. The information was imported into a web-based GIS program to allow Bondurant staff to view, edit and maintain all utility data from any computer or mobile device. The city can now operate from a single source GIS across multiple users in various departments, working seamlessly across a user-friendly GIS tool.

Storm Sewer & MS4 GIS Development services for St. Joseph, MO
As GIS Phase Manager, Jeremy supported all data integration efforts through a series of MS4 and storm sewer projects for the City of St. Joseph since 2007 through renewed Master Agreement contracts. Over the years, SAM has provided GPS mapping, inspection and GIS development of 10,000+ utility features for use in engineering design projects. SAM has also assisted the city's utility department in developing reports and processes to improve their compliance on a federal consent from the Environmental Protection Agency.

SAM - Exhibit A

Kevin Wheeler • Project Manager

Kevin Wheeler is responsible for the management of operations for water and wastewater projects in the Texas, Louisianna, Oklahoma, and Arkansas areas. He oversees the project startup, execution, reporting and customer relations through completion. Kevin has a proven track record or project efficiency and customer satisfaction across multiple services which include water, wastewater, stormwater, and gas for clients such as the City of Fort Worth, City of Houston, Dallas Water Utilities, Trinity River Authority, Atmos Energy, and many more.

Kevin has more than 13 years of experience in the wastewater industry, starting out as a combo operator and then quickly moving from CCTV operator to Supervisor to Branch Manager. Kevin has served as Lead Operator on numerous large projects ranging from $200,000 to $1.5 million. He has managed large diameter projects across Oklahoma, Texas, Arkansas, and Louisiana, and personally inspecting approximately 10 Million LF of sanitary and storm sewers.

EXPERIENCE
- 13+ Years Industry Experience

EDUCATION
- BS, School Health/Safety, Southern Nazarene University

CERTIFICATIONS
- NASSCO: PACP/MACP/LACP
- Confined Space Entry

EXPERTISE
- Project Management
- Pipeline Cleaning and Inspections
- Underground construction and remediation services
- Customer Relations
- Field Execution

50% of Time Anticipated
Austin, TX Office Location

Project Experience

Valve Assessment – City of Austin, TX
Manage the execution of the project. Exercise valves city wide and report status. Project consisted of weekly status updates, internal scheduling and tracking, coordination with city on high priority valves and traffic sensitive areas.

Large Tunnel MSI Inspections – City of Austin, TX
Project Manager: Coordinate access and put work plan in place for creek side assets over 84" in diameter and 80'+ in depth. Oversee all operations both internally and through subcontractors. Prepare and submit data delivery. Communicate progress and needs with city staff.

Valve Assessment – SAWS - San Antonio, TX
Project Manager SAWS valve assessment program (15,000 yearly). Project consisted of preliminary client meetings, coordination with SAWS staff, daily tracking and reporting.

SAWS - Exhibit A

Jeremy (JT) Burden • Project Manager

Jeremy (JT) Burden has more than 23 years of experience in the wastewater industry, all with Hydromax USA. He has been the lead CCTV operator on more than 100 different projects located in twenty (20) states, and personally inspected approximately 10 million LF of sanitary and storm sewers.

EXPERIENCE
- 21+ Years Industry Experience
- 100+ Industry Projects
- 10M+ LF Sanitary & Storm Inspections

CERTIFICATIONS
- NASSCO Certified PACP, LACP, MACP (since 2006)
- OSHA Confined Spaced Entry
- OSHA 10

EXPERTISE
- Operations management
- Buried infrastructure
- Sewer inspection
- MSI
- CCTV
- Smoke testing

50% of Time Anticipated Louisville, KY Office Location

Project Experience

Sewer Assessment – SARP10 Program - Memphis, TN
Project Manager for multiple phases of work on the SARP10 program. Throughout the program, JT has overseen or been involved in more than 5 million linear feet of sewer investigations including cleaning and televising, manhole inspections, smoke testing and multi-sensor inspections. All work was completed in NASSCO PACP format.

Sewer Assessment – Kansas City Water Services - Kansas City, MO
Field Supervisor on more than 10 years of work in Kansas City, MO for both the Water Services Department and the Smart Sewer Program. JT has overseen or been involved with several projects providing cleaning and televising, sonar, multi-sensor, manhole inspections, smoke testing, flow monitoring and GPS data collection. All data was collected in NASSCO PACP Format

Sewer Assessment – Columbia / CDM Smith - Columbia, SC
Project Manager for program that consisted of cleaning and assessing approximately 500,000 LF of 15” to 33” sewer pipe with NASSCO PACP deliverable. Manhole inspections with NASSCO MACP deliverable.

Sewer Assessment – Johnson County - Olathe, KS
Project Manager for project where Hydromax USA completed 11,000 LF of multi-sensor inspection utilizing the CUES SFX Multi-Sensor Inspection system on pipes ranging from 42-inch to 72-inch.

SAM-Exhibit A

Donnie Adkins • Lead CCTV Operator

Donnie Adkins has more than 7 years of experience in the wastewater industry, all with Hydromax USA. He has been the lead MSI operator on more than 30 different projects, and personally inspected approximately 1.5 million LF of sanitary and storm sewers.

EXPERIENCE
- 7+ Years Industry Experience
- 30+ Industry Projects
- 1.5M+ LF Sanitary & Storm Inspections

CERTIFICATIONS
- NASSCO Certified PACP, LACP, MACP (since 2017)

EXPERTISE
- Crew supervision
- Buried infrastructure
- Sewer inspection
- MSI
- CCTV

50% of Time Anticipated Louisville, KY Office Location

Project Experience

Sewer Assessment – SARP10 Program - Memphis, TN
Crew Lead Operator and Field Supervisor for multiple phases of work on the SARP10 program. Throughout the program, Donnie has been the lead operator for inspections covering more than one (1) million linear feet of sewer investigations including cleaning and televising, manhole inspections, smoke testing and multi-sensor inspections. All work was completed in NASSCO PACP format.

Sewer Assessment – Kansas City Water Services - Kansas City, MO
Crew Lead Operator and Field Supervisor on more than 7 years of work in Kansas City, MO for both the Water Services Department and the Smart Sewer Program. Donnie has been the lead operator on several projects providing cleaning and televising, sonar, multi-sensor, manhole inspections, smoke testing, flow monitoring and GPS data collection. All data was collected in NASSCO PACP format.

Multi-Sensor Inspection – Austin Water - Austin, TX
Crew Lead Operator and Field Supervisor for Austin MSI project. Supervised completion of more than 275,000 LF of multi-sensor inspection utilizing the CUES SFX Multi-Sensor Inspection system on pipes ranging in size from 21-inch to 96-inch.

Sewer Assessment – Johnson County - Olathe, KS
Field Supervisor for project where Hydromax USA completed 11,000 LF of multi-sensor inspection utilizing the CUES SFX Multi-Sensor Inspection system on pipes ranging from 42-inch to 72-inch.

SAM Exhibit A

John Kent • Lead CCTV Operator

John Kent has more than 10 years of experience in the wastewater industry, all with Hydromax USA. John has been the lead CCTV operator on various projects in 14 different states and has personally inspected over 5 million LF of sanitary and storm sewers.

EXPERIENCE
- Professional: 20+ years
- 100+ Industry Projects
- 3M+ LF Sanitary & Storm Inspections

CERTIFICATIONS
- NASSCO Certified PACP, LACP, MACP
- OSHA Confined Spaced Entry
- OSHA 10

EXPERTISE
- Operations management
- Buried Infrastructure

50% of Time Anticipated
Louisville, KY Office Location

Project Experience

Sewer Assessment – SARP10 Program - Memphis, TN
Field and Quality Control Supervisor for multiple phases of work on the SARP10 program. Throughout the program, John has been involved in more than 5 million linear feet of sewer investigations including cleaning and televising, manhole inspections, smoke testing and sonar inspections. All work was completed in NASSCO PACP format.

Sewer Assessment – Kansas City Water Services - Kansas City, MO
Field and Quality Control Supervisor on more than 15 years of work in Kansas City, MO for both the Water Services Department and the Smart Sewer Program. John has been involved with several projects providing cleaning and televising, sonar, multi-sensor, manhole inspections, smoke testing, flow monitoring and GPS data collection. All data was collected in NASSCO PACP Format.

Sewer Assessment – Columbia / CDM Smith - Columbia, SC
Field and Quality Control Supervisor for program that consisted of cleaning and assessing approximately 500,000 LF of 15” to 33” sewer pipe with NASSCO PACP deliverable. Manhole inspections with NASSCO MACP deliverable.

SAM Exhibit A

David Hamberlin
Subject Matter Expert/QA/QC Lead

David Hamberlin boasts an extensive background spanning more than twenty (20) years in the investigation of collection systems. Throughout his career, he has been involved in a diverse array of activities, encompassing fieldwork, oversight, and the management of over 450 projects. David serves on the NASSCO Operations and Maintenance Committee, WWETT Show Advisory Board, and is a NASSCO Certified Trainer.

EXPERIENCE
- Professional: 20+ years

EDUCATION
- Kinesiology, Northeast Texas Community College

CERTIFICATIONS
- NASSCO Certified PACP, LACP, MACP (since 2008)
- NASSCO Certified Trainer

EXPERTISE
- Data Collection
- NASSCO Certified Trainer
- Pipeline Condition Assessment
- Valve and Hydrant Assessment
- Sewer inspection
- MSI
- CCTV

10% of Time Anticipated Flower Mound, TX Office Location

Project Experience

Sewer Assessment – SARP10 Program - Memphis, TN
Subject Matter Expert and Business Development Manager for multiple phases of work on the SARP10 program. Throughout the program, David has overseen or been involved in more than 5 million linear feet of sewer investigations including cleaning and televising, manhole inspections, smoke testing and multi-sensor inspections. All work was completed in NASSCO PACP format.

Sewer Assessment – Kansas City Water Services - Kansas City, MO
Subject Matter Expert and Business Development Manager on more than 10 years of work in Kansas City, MO for both the Water Services Department and the Smart Sewer Program. David has overseen or been involved with several projects providing cleaning and televising, sonar, multi-sensor, manhole inspections, smoke testing, flow monitoring and GPS data collection. All data was collected in NASSCO PACP Format.

Sewer Assessment – Overflow Control Program - Omaha, NE
Subject Matter Expert with more than 10 years of data collection in Omaha. Field work included flow monitoring, cleaning, and televising, smoke testing, manhole inspections and GPS data collection. Data was collected in the city's SCREAM database.

Sewer Assessment – Johnson County - Olathe, KS
Subject Matter Expert and Business Development Manager for project where Hydromax USA completed 11,000 LF of multi-sensor inspection utilizing the CUES SFX Multi-Sensor Inspection system on pipes ranging from 42-inch to 72-inch.

SAM Exhibit A

PROJECT SCHEDULING & PROGRESS REPORTING

Following the project commencement, the SAM team will have a kickoff meeting with Edmond staff to review the project, verify any existing data, and go over questions. Once the project setup and planning has been completed, SAM will have technicians and dedicated office staff to begin working through the delegated items. During the project, Project Management will meet weekly to cover project progress, review data, and answer questions staff may have.

Additionally, Hydromax USA will prepare a formal project schedule for review and approval by the City. Hydromax USA uses two primary methods to communicate project planning and project management. Project plans are formally prepared using MS Project and distributed to the project team for approval and coordination.

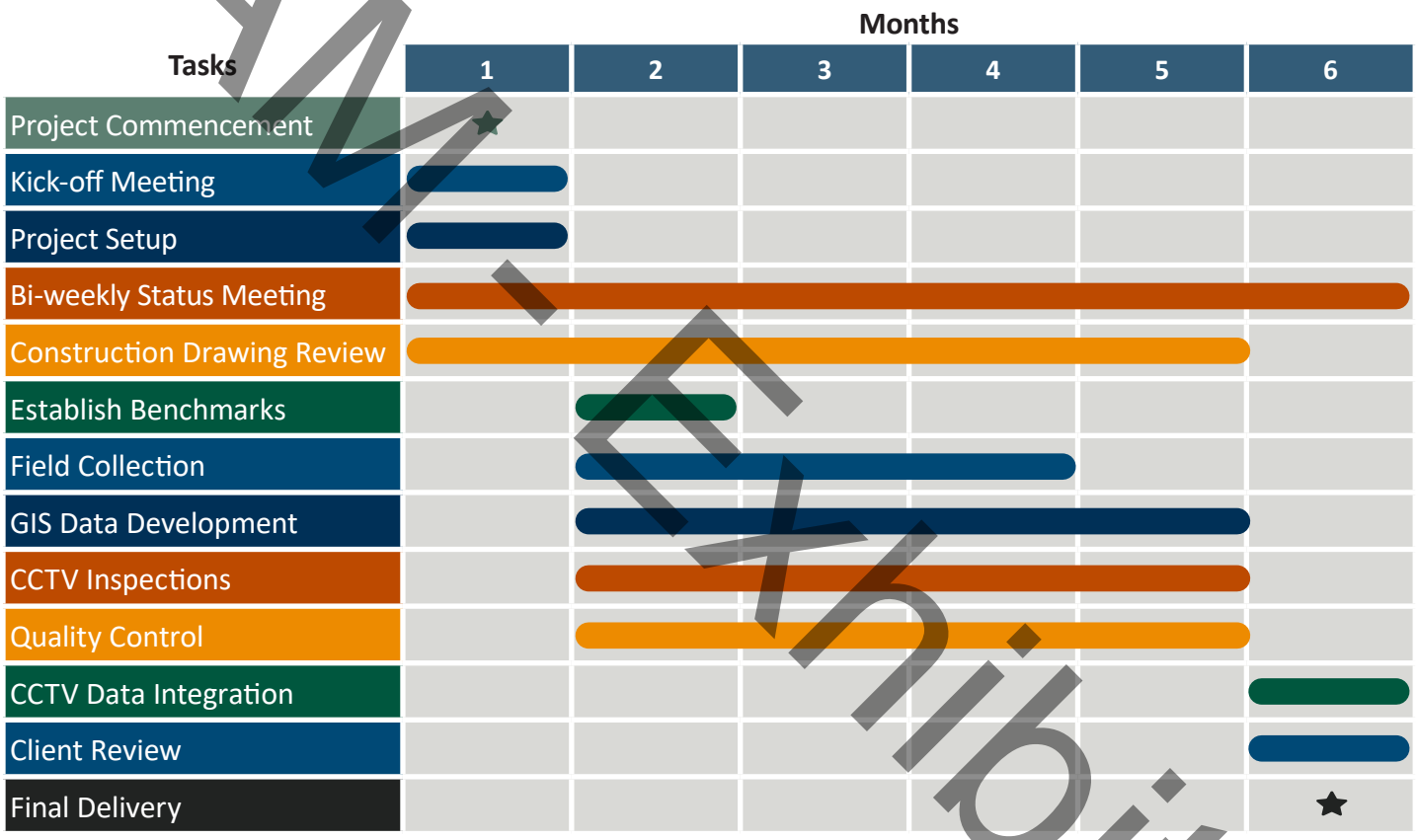
SAM - Exhibit B

Tasks	Months					
	1	2	3	4	5	6
Project Commencement						
Kick-off Meeting						
Project Setup						
Bi-weekly Status Meeting						
Construction Drawing Review						
Establish Benchmarks						
Field Collection						
GIS Data Development						
CCTV Inspections						
Quality Control						
CCTV Data Integration						
Client Review						
Final Delivery						★

PROJECT SCHEDULING & PROGRESS REPORTING

Following the project commencement, the SAM team will have a kickoff meeting with Edmond staff to review the project, verify any existing data, and go over questions. Once the project setup and planning has been completed, SAM will have technicians and dedicated office staff to begin working through the delegated items. During the project, Project Management will meet weekly to cover project progress, review data, and answer questions staff may have.

Additionally, Hydromax USA will prepare a formal project schedule for review and approval by the City. Hydromax USA uses two primary methods to communicate project planning and project management. Project plans are formally prepared using MS Project and distributed to the project team for approval and coordination.



SAM - Exhibit C

EXHIBIT D—INSURANCE

ARTICLE 1—INSURANCE

Paragraph 5.04 of the Agreement, Insurance, is supplemented to include the following Exhibit D Paragraphs 1.01 and 1.02:

1.01 Insurance Policies and Limits

A. In accordance with Paragraph 5.04.A of the Agreement, the insurance that Subconsultant must procure and maintain, and the policy limits of such insurance, are as follows:

Coverage	Policy limits of not less than:
Workers' Compensation	
State	Statutory
Employer's Liability	
Each accident	$100,000
Each employee	$100,000
Policy limit	$1,000,000
Commercial General Liability	
General Aggregate	$5,000,000
Personal and Advertising Injury	$1,000,000
Bodily Injury — Each Occurrence	$1,000,000
Property Damage—Each Occurrence	$2,000,000
Automobile Liability	
Bodily Injury	
Each Person	$
Each Accident	$
Property Damage	
Each Accident	$
Or	
Combined Single Limit	
Combined Single Limit (Bodily Injury and Property Damage)	$1,000,000
Excess or Umbrella Liability	
Each Occurrence	$5,000,000
General Aggregate	$5,000,000
Professional Liability	
Each Claim	$1,000,000
Annual Aggregate	$1,000,000
Cyber Liability	
Aggregate	$5,000,000

1.02 Additional Insureds

A. Subconsultant shall cause Owner, its Subconsultants, and Subconsultant's Subcontractors to be listed as additional insureds on any and all of Subconsultant's insurance policies listed herein that are applicable to the Project.

Task	Unit of Measure	Est. Qty.	Additional Coverage (20%)	Unit Price	Extended Price
Monuments	Each	2		$5,500.00	$11,000.00
Stormwater Structures	Each	2540	508	$101.50	$309,372.00
Stormwater Channels	Each	577	116	$92.00	$63,756.00
Detention / Retention Basins	Each	82	17	$275.50	$27,274.70
CCTV Integration	Each	1		$14,400.00	$14,400.00
Traffic Control Rolling	Day	7		$1,500.00	$10,500.00
CCTV Mobilization	Each	1		$13,000.00	$13,000.00
CCTV Inspection (Including Zoom Camera)	Day Rate	90	18	$3,250.00	$351,000.00
Cleaning Mobilization	Each	1		$6,500.00	$6,500.00
Cleaning	Day Rate	15	3	$3,250.00	$58,500.00
Sonar Processing	Linear Foot	3,000	600	$3.50	$12,600.00
Elevated Manhole Access	Each	5		$650.00	$3,250.00
Traffic Control Rolling	Day	5		$1,500.00	$7,500.00
Traffic Control Lane Closure	Day	50		$2,100.00	$105,000.00
				Not to Exceed Total Costs	**$993,652.70**

SAM - Exhibit E

Survey Assumptions

- Fees are based on the number of estimated utility features as provided to SAM by the City of Edmond. Stormwater assets in excess to the provided numbers are subject to an additional cost.
- The Fee Schedule listed above will remain in force for a 180 day period from the effective date on this proposal document and is subject to an escalation after that period.
- SAM assumes field staff are authorized to work during weekends.
- Survey pricing includes a maximum of 7 days of heavy traffic control.
- It is assumed that private and gated communities will cooperate with access. In the event that they do not, SAM will coordinate with COE staff.
- Sam will utilize a 3rd party for all traffic control meeting the city's MUTDC standards. Any traffic control will have professional plans submitted to the city for review and SAM will acquire and necessary permits from the City of Edmond. Traffic control will be carried out between the hours of 9:00am and 3:00pm, Monday through Friday, to provide as little disturbance to regular flow of traffic.
- SAM defines a lane closure as when one or more lanes of a roadway are shut down in a fixed location for a period of time. A rolling lane closer is a temporary, mobile traffic control operation where traffic is slowed or held back while a moving work area or escort vehicle travels along the roadway.

CCTV Assumptions

- Unless otherwise stated in the proposal, this proposal does not include any payment of prevailing wages or certified payroll reporting. If payment of prevailing wages or certified payroll is required, the owner shall provide a wage determination sheet that includes the rates required for the specific job, or certified payroll instructions.
- This proposal does not include bypass pumping or pipe plugging unless otherwise stated within.
- Customer will be responsible for the costs associated with any repairs or extractions that are required due to existing structural defects or failures.
- If a line is televised completely, then determined to be cleaned and re-televised after cleaning. Both CCTV inspections will be billed.
- This proposal does not include accessing manholes that are elevated more than 4' above grade. Any manhole taller than 4' above grade will be negotiated as a change order to this proposal.
- Light traffic control will be conducted at the price given. This includes Utility Work Ahead Signs and cones. Any heavy traffic control that includes barricades, sign boards, arrow boards, or lane closures, or requires any permitting are not covered under this proposal.
- The fee associated with this proposal is for the estimated footage given or provided. Any additional work that the Owner/ Customer would like to have completed, will be negotiated as a change order to this proposal.
- This proposal does not include any clearing/ grubbing for easement roads or access.
- There are no hazardous materials present in the project area.
- Customer will provide accurate ArcGIS mapping for the project and will provide support as needed for these maps.
- Client will provide a dump location for the debris.
- Client will provide water for any sewer cleaning.
- Sewer cleaning will only be on an "as needed" basis, if Hydromax crews are unable to traverse any sewer pipes in situ.
- Cleaning will only be completed as needed, and approved by the client.
- Sonar processing will only be utilized for line segments that we are directed to complete sonar on.
- LiDAR processing will only be utilized for line segments that we are directed to complete LiDAR on.
- If Hydromax USA crews discover any type of blockage that requires assistance from the city to complete, our crews will move to a different portion of the assigned work area and continue working for the day.

SAM Exhibit E

Stormwater Drainage Advisory Board **4.**

Meeting Date:	10/19/2026
Submitted For:	Steve Lawrence, Director, Engineering
	Email: Steve.Lawrence@edmondok.gov , Phone: 405-359-4770
Submitted By:	Audrey Plunkett, Stormwater Engineer, Engineering
Ward:	Citywide
City Council Strategic Plan:	N/A

Information

Item

Discussion and Presentation of Stormwater Quality Annual Updates.

Background

Stormwater Quality will present status updates for the City of Edmond's Stormwater Quality Program.

Time Frame

N/A

Issue

N/A

Recommendations

N/A

Action Needed

Discussion and presentation only.

Public Notification

Posted to Stormwater Drainage Advisory Board Agenda.

Attachments

SWQ Presentation

Drainage Utility Stormwater Quality Program Updates

October 19, 2026

Tyler Delval
Water Quality Manager

KEEP EDMOND'S WATERWAYS CLEAN

Edmond
A GREAT PLACE TO GROW

City of Edmond Stormwater Program

- National Pollutant Discharge Elimination System (NPDES) Phase II Small Municipal Separate Storm Sewer System (MS4) General Permit OKR04
- Stormwater Management Plan – contains all activities that will be conducted on behalf of the City to meet its obligations under the OKR04 permit.

- City of Edmond Minimum Control Measures (MCM):
  - Public Education and Involvement
  - Industrial Stormwater Runoff Control
  - Illicit Discharge Detection & Elimination
  - Construction
  - Post Construction
  - Good Housekeeping

City of Edmond OKR04 Permit

- Permit renewal is based on a 5-year cycle
- Permit update: In review
- Continue to operate under existing OKR04 permit which was set to expire on May 31st, 2026.

2025 Annual Report

- Report based on City Best Management Practices (BMPs) spelled out within the City of Edmond Stormwater Management Plan (SWMP).
- City SWMP contains 18 reportable BMP's:
  - Education and outreach; OKR05 and OKR10 Inspections; Dry Weather Field Screening; GIS Mapping; Good housekeeping; Training; Flood Management Projects; Trash and Household Hazardous Waste; PSA's & more

  - Annual Report was submitted to DEQ on April 29th, 2026.
  - DEQ feedback received on August 21st , 2026 acknowledged that there were no program deficiencies to be addressed.

Stormwater Management Plan

- Revision 4 of Stormwater Management Plan (SWMP) resulted in DEQ requirement of the City of Edmond SWMP to be available to the public online.

- Revisions included:
  - Removal of Peavine Creek from 303d Impaired waterway list.
  - Addition of new City Facilities to Table 19. (North Timbers, City Hall, Fire Station 6, & Municipal Court building 2)
  - Clerical changes to BMP 1, 8 & 9

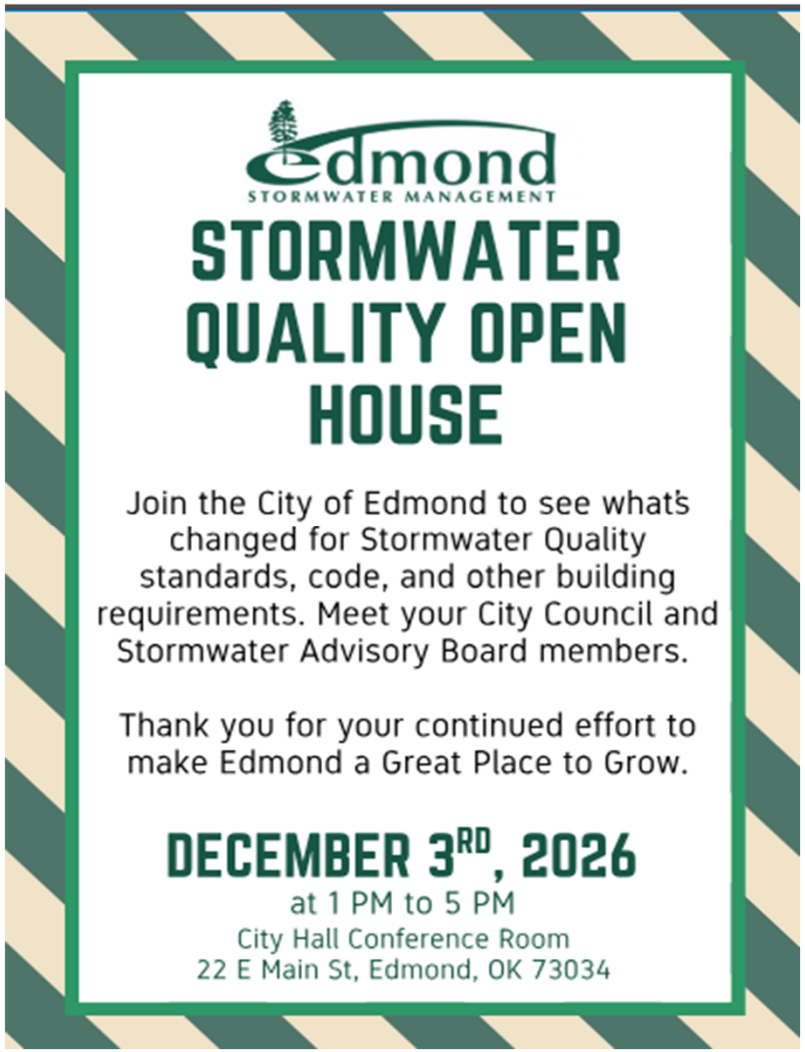
Education and Outreach

- 2026 Home and Garden Show as part of COSWA
- 11th year partnering with Upcycle Products for our annual Rain Barrel and Compost Bin event: Distributed 119 total barrels
- UCO Earth Day
- Industrial Workshop OKR05
- Enviroscape Presentations (EPS and St. Mary's Episcopal School)
- Planned Events:

1. Stormwater Open House



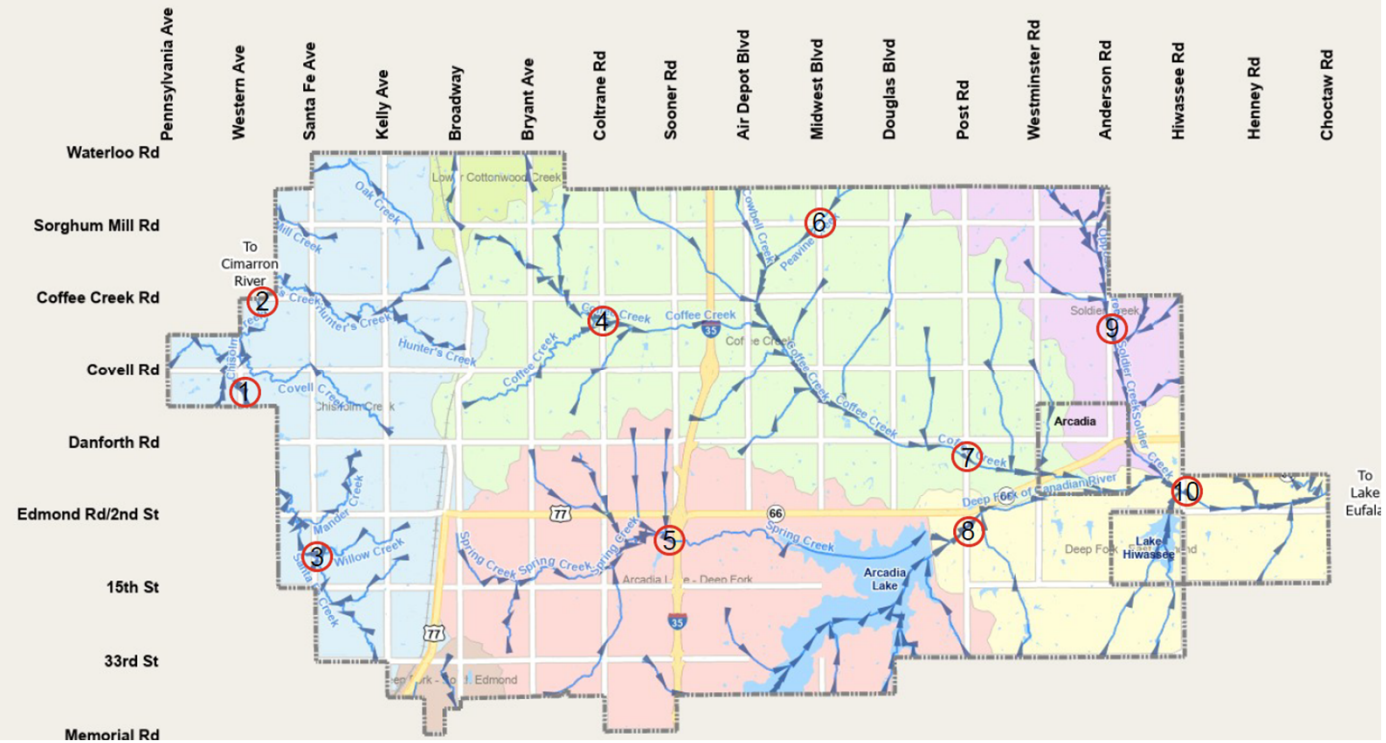
Stormwater Open House



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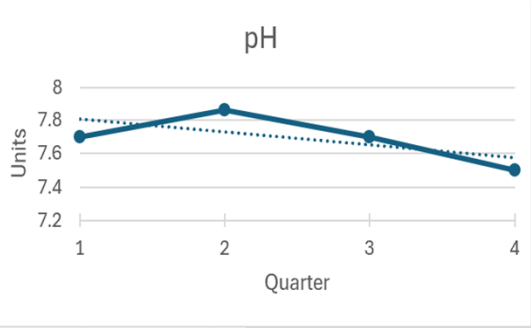
Water Quality Testing Program

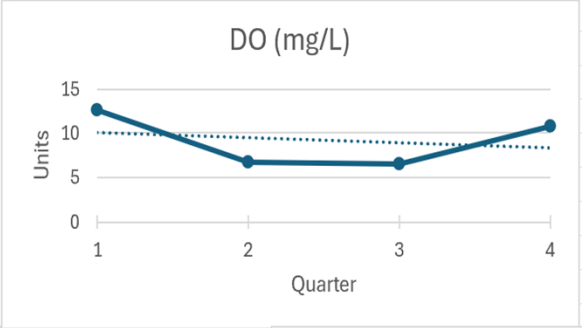
Stormwater quality continues to test all the same parameters that were originally implemented and have added a routine chlorine test to each site per quarter as well as E-coli testing on a biannual basis.

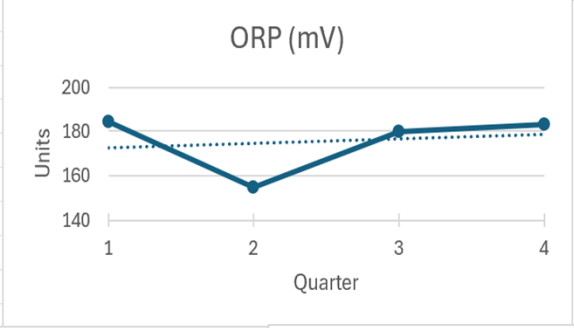


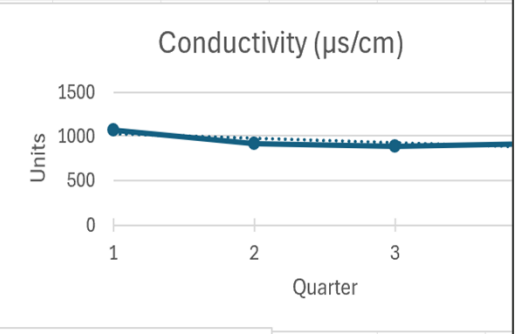
Water Quality Testing Results

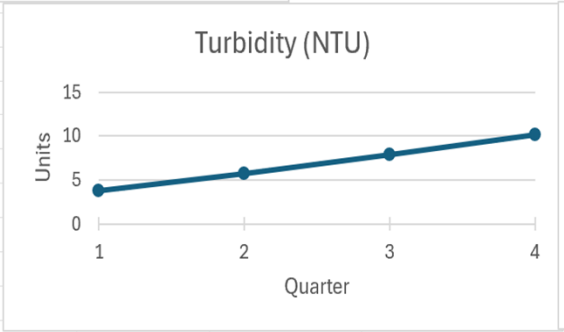
Water Quality Parameters Testing								
Testing Site 1								
Quarter	Date	pH	DO (mg/L)	ORP (mV)	Conductivity (µs/cm)	Turbidity (NTU)	Nitrate (ppm)	Nitrite (ppm)
1	2/24/2025	7.7	12.59	184.4	1070	3.8	0	0
2	6/23/2025	7.86	6.77	154.9	915	5.68	1	0
3	9/30/2025	7.7	6.54	179.7	883	7.81	0	0
4	12/11/2025	7.5	10.75	182.9	913	10.1	0	0

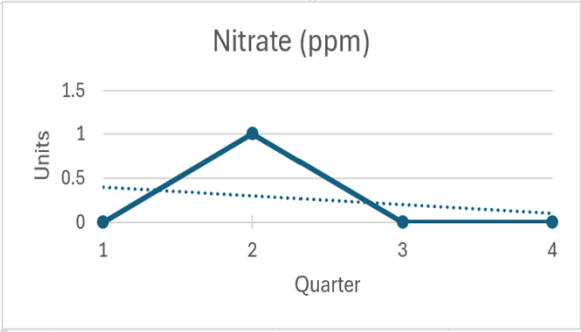


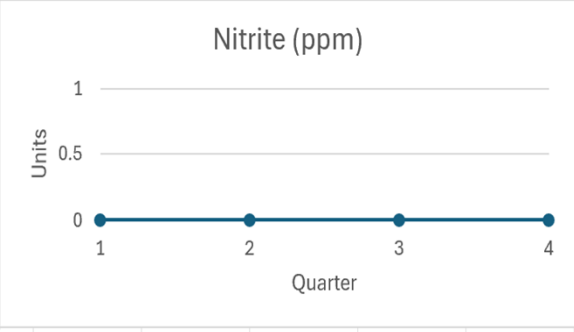












Questions?



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