



CITY OF SOUTH BEND

BOARD OF PUBLIC WORKS

August 11, 2026

Amy Smitley
Arcadis U.S., Inc.
47 S. Meridian Street, Suite 200
Indianapolis, IN 46204
Amy.smitley@arcadis.com

RE: Professional Services Agreement

Dear Amy:

At its August 11, 2026 meeting, the Board of Public Works approved the above referenced agreement for the evaluation for the Smart Sewer system upgrades in the amount of \$157,500.

Enclosed please find a copy of the agreement for your records.

Sincerely,
/s/Hillary Horvath
Hillary Horvath, Clerk

City of South Bend**Smart Sewer Upgrade Evaluation****SCOPE OF WORK****July 13, 2026**

South Bend's Smart Sewer system is a nationally recognized, real-time control (RTC) enabled network that has transformed the City's combined sewer system into a dynamic, data-driven asset, reducing combined sewer overflows. Built on a foundation of distributed sensors, automated control valves, and advanced monitoring, the system continuously optimizes flow across interceptors, storage, and treatment capacity during wet weather events. As the City looks ahead, targeted upgrades to this system are required to restore peak performance, integrate modern technologies, and further strengthen reliability, resiliency, and regulatory compliance. South Bend has continued to partner with HydroDigital and D3 Water LLC (D3) for system optimization and maintenance and now seeks to bring Arcadis into this effort to lead the engineering of these critical upgrades. This work will begin with Phase 1, a focused evaluation to define improvement needs and establish a clear, prioritized path forward, followed by Phase 2 design. Further details on the system are provided below.

Existing System. The system actively manages capacity across the City's approximately 600-mile combined sewer network through a robust monitoring and control framework supported by a centralized real-time decision support system (RT-DSS). At its core, the system consists of more than 100 distributed monitoring sites across the collection system, equipped with sensors that continuously measure depth, flow, velocity, and system conditions. While the existing monitoring network provides the backbone for real-time operations, no upgrades are anticipated to this portion of the system. Complementing the monitoring network are eight remaining remotely controlled regulator, gate, and valve sites distributed throughout key interceptors and diversion structures. These sites are CSO 003, 004, 014, 025, 026, 027, 028, and 044, of which the City has performed an initial evaluation. These control points actively manage flow across the network diverting wastewater from constrained trunks to underutilized conveyance and storage capacity. These existing control points along with several new control points proposed at new locations by the City and HydroDigital are the primary focus of this evaluation.

System Needs. Targeted upgrades to mechanical, electrical and instrumentation and control systems are required at the eight remotely controlled sites to restore full automation, improve operational reliability, replace equipment that has reached end of life cycle, and ensure compliance with current codes and standards. In addition, the City and HydroDigital are evaluating opportunities to expand the control network with several new RTC sites to further improve system flexibility and performance. Given funding constraints, improvements will be prioritized using a structured approach, with criteria including, at a minimum, system performance impact, operational reliability and safety considerations.

The following describes the initial scope of work to perform this Smart Sewer Upgrade project under Phase 1.

TASK 1 – PROJECT MANAGEMENT / MEETINGS

Project management best practices will be applied internally to ensure the project is completed successfully and within the defined budget and timeline. Arcadis will:

- Maintain a project SharePoint site for document transfer, storage, and transmittal of deliverables.

- Provide regular project status updates to the South Bend project manager.
- Manage project execution including resources, quality control practices, budget and schedule monitoring.
- Facilitate a kickoff meeting to review project intent, scope, schedule, contact and communications and a discussion of the key elements and concepts for the project.
- Prior to the kickoff meeting, submit a data request. This data will be reviewed during the kickoff meeting to build consensus regarding the meaning of pertinent data as well as its completeness and accuracy.
- Hold monthly progress meetings via a Teams virtual meeting in coordination with a presentation developed to communicate and coordinate with the City on ongoing task efforts.
- Coordinate with other City contractors including HydroDigital and D3.
- Send monthly invoices.

Deliverables:

- Project Invoicing
- Data and Document Inventory (tracking reviewed materials and identifying gaps)
- Meeting Minutes

TASK 2 – CURRENT SYSTEM UNDERSTANDING

To establish a clear and validated understanding of the current Smart Sewer control system, Arcadis will conduct a focused review of existing documentation, system configuration, and operational performance. This effort will build on the City's prior assessments and institutional knowledge, incorporating input from HydroDigital and D3 to confirm how the system is intended to operate versus how it is currently performing. The outcome will be a baseline of system functionality, gaps, and improvement needs to inform subsequent evaluation and design.

- Review City's initial assessment of system inventory and identified needs.
- Review prior studies and record drawings including those previously completed by Malcolm Pirnie (Arcadis).
- Perform a high-level review of the existing Supervisory Control and Data Acquisition (SCADA) system, including field instrumentation and control equipment, control system hardware and software, network architecture, collection system model control strategy, and SOPs to confirm operational understanding.
- Perform a high-level review of the existing electrical systems, including power distribution, service availability, control panel power supply, and standby power systems to confirm overall system configuration, reliability, and operational understanding.
- Evaluate operational performance data and compare intended vs. actual system performance.
- Following the above activities and also Task 3, summarize findings and validate system understanding through a coordinated meeting with the City, HydroDigital and D3 and document in a report section.

Deliverables:

- Meeting Minutes
- Typical RTC Site Control System Connection Diagram showing integration between sensors, RT-DSS, SCADA, and control sites
- Operational Assessment Summary (intended vs. actual performance, key inefficiencies or constraints)
- Existing Conditions Report Section (summarizing system configuration, key findings and gaps)

TASK 3 – FIELD CONDITION ASSESSMENT

Arcadis will conduct a field condition assessment of the Smart Sewer control sites to validate existing asset condition, identify deficiencies, and establish a reliable basis for rehabilitation and upgrade planning. This effort will combine structured field data collection with asset management best practices used during the prior development of the City's Asset Management Plan. The assessment will be performed in close coordination with the City, HydroDigital, and D3 to confirm site access, operational context, and safety requirements.

- Develop plan for field condition assessment plan, including site-specific safety protocols and coordination with the City for special consideration of existing electrical systems safety issues identified by the City.
- Configure Fulcrum (electronic data collection application) to establish a standardized system of record.
- Conduct site visits to assess accessible control points and associated mechanical, electrical, telemetry, and instrumentation and control equipment. Coordinate with the City and/or D3 to accompany Arcadis to the sites for access and operational support. Arcadis to provide two mechanical, one electrical and one I/C engineer.
- Summarize results and review findings with the City, HydroDigital and D3 in a coordination meeting.

Deliverables:

- Completed Fulcrum Database (system of record for assessed assets)

TASK 4 – EXISTING SYSTEM EVALUATION

Arcadis will perform an evaluation of the existing Smart Sewer system to define a clear, prioritized roadmap for system improvements. Building on the condition assessment, this effort will identify opportunities to enhance system performance, improve safety, improve operational simplicity, and ensure long-term reliability. The evaluation will integrate physical asset condition with control strategy, SCADA integration, and emerging technologies to develop actionable, cost-informed recommendations aligned with the City's operational and funding priorities.

- Assess control system functionality and identify monitoring technology improvement opportunities.
- Define system improvements based on condition assessment, performance, and available technologies.
- Evaluate SCADA and/or integration needs to maximize performance, enhance data and simplify operations.
- Evaluate electrical system capacity, reliability, and integration considerations to support existing and proposed operations, including potential power distribution constraints and upgrade needs.
- Review and evaluate electrical safety compliance with NFPA 70E (Standard for Electrical Safety in the Workplace).
- Prioritize recommended improvements based on factors such as safety, remaining useful life, equipment obsolescence and performance impact to be consolidated with the new sites in Task 6.
- Develop planning level opinions of probable construction costs for recommended improvements.
- Summarize results and review findings with the City, HydroDigital and D3 in a coordination meeting.

Deliverables:

- Meeting Minutes
- Existing System Evaluation Report Section (including control system enhancement strategy, asset replacement plan, benefit and risk reduction, and preliminary opinion of probable construction costs)

TASK 5 – PROPOSED EXPANSION EVALUATION

Arcadis will evaluate proposed Smart Sewer expansion opportunities identified by HydroDigital. This task will build on the City's existing RTC framework by assessing how additional control sites could enhance performance, increase operational flexibility, and further reduce overflow risk. Through coordination with HydroDigital and field-based observations, Arcadis will develop conceptual-level recommendations and planning-level cost estimates. HydroDigital has identified up to three potential projects that compliment the existing real time control system.

- Coordinate with HydroDigital to define project requirements for each proposed project/site.
- Obtain and review record drawings, GIS data, and available information on existing sewer and infrastructure.
- Conduct field visits to each proposed site (in coordination with Task 3) to document existing conditions, site constraints, access considerations, and constructability including photographs and observations.
- Perform feasibility assessments and develop conceptual level design approaches for each site.
- Evaluate mechanical, electrical, and instrumentation and control considerations to support integration of proposed RTC sites with the existing system.
- Prepare planning-level opinions of construction costs for recommended improvements.
- Summarize results and review findings with the City, HydroDigital and D3 in a coordination meeting.

Deliverables:

- Meeting Minutes
- Proposed Expansion Evaluation Report Section (including conceptual site layouts, key assumptions and constraints, and planning-level opinion of probable construction costs)

TASK 6 – PRIORITIZED PLAN AND REPORT

Arcadis will develop a report that synthesizes the results of the above tasks into a single, decision-focused document. This memorandum will integrate findings from the existing system evaluation and proposed expansion evaluation to establish a unified, prioritized roadmap for Smart Sewer improvements. The memorandum will define recommended improvements, identify priorities, and establish an implementation strategy aligned with system performance goals, operational reliability, safety, and available funding.

- Compile findings from above tasks. Compare and evaluate recommended existingsite improvements and proposed new RTC sites using a consistent prioritization framework.
- Develop prioritization criteria considering system performance impact, safety, operational reliability, equipment condition, obsolescence, constructability, and cost.
- Prepare a unified, prioritized list of recommended improvements and expansion projects.
- Consolidate planning-level opinions of probable construction cost for all recommended projects.
- Establish a phased implementation strategy to align improvements with operational constraints, system needs, and available funding. The criteria will be used to prioritize and phase for short and long-term needs.
- Document key assumptions, constraints, and risks affecting implementation.
- Submit a draft report for review and incorporate feedback into a final memorandum.
- Review recommendations with the City, HydroDigital and D3 in a coordination meeting.

Deliverables:

- Meeting Minutes
- Smart Sewer Upgrades Evaluation Report (Draft and Final)

ASSUMPTIONS

This scope is based on the following assumptions. Any change in these assumptions may result in a change to the project scope and engineering fee.

1. All data provided by the City, HydroDigital, and D3 (including SCADA, GIS, and operational data) is assumed to be accurate, complete, and representative of current system conditions.
2. Arcadis will not be responsible for validating or correcting underlying system models, SCADA configurations, or historical data beyond a high-level review for reasonableness.
3. Access to all required facilities, sites, and infrastructure will be provided by the City and/or D3, including coordination of entry, confined space access, and any required permits.
4. Field assessments will be limited to accessible and safely observable conditions; no destructive testing, bypass pumping, or intrusive investigations are included in this scope.
5. Instrumentation and control work will be limited to system-level evaluation and visual condition assessment of instrumentation, control panels, communications, and SCADA integration. Detailed control logic review, PLC programming, instrument calibration, system troubleshooting, or advanced data analytics beyond high-level identification are not included.
6. Electrical work will be limited to visual inspection and condition assessment; detailed arc flash studies, load studies, or code compliance upgrades beyond high-level identification are not included.
7. No survey, geotechnical investigation, or subsurface utility engineering (SUE) is included; existing record drawings and GIS data will be used to inform evaluations.
8. Opinions of probable construction cost (OPCC) will be planning-level and based on available information at the time of evaluation; costs may change as design advances.
9. The number of sites evaluated (existing and proposed) is limited to those identified in this scope; evaluation of additional sites may require a scope and fee amendment.
10. Coordination will be limited to planned project meetings and workshops; additional meetings or extended coordination efforts may require additional scope.
11. Timely review and feedback from the City and its partners is assumed to maintain project schedule.
12. HydroDigital will develop and provide standard operating procedures (SOPs); Arcadis will review for understanding but assumes no responsibility for development or implementation of SOPs.

SCHEDULE

It is proposed that Arcadis complete the study phase within six months from notice to proceed. This assumes requested information is provided timely and City staff have meeting availability.

FUTURE PHASE 2: DESIGN, BID AND CONSTRUCTION PHASE SERVICES

Arcadis could support design, bid and/or construction phase services to implement the recommendations in the Smart Sewer Upgrade Evaluation as part of Phase 2, in coordination with the City, HydroDigital, and D3. The scope and budget for these services can be provided upon completion of Phase 1.

BUDGET

Arcadis proposes to perform this scope of work on a time and materials basis for a not-to-exceed budget as shown in the following table. HydroDigital, D3 or others will be subcontracted separately with the City.

Task	Labor	ODCs	Not-To-Exceed Amount
Task 1 – Project Management / Meetings	\$21,500		\$21,500
Task 2 – Current System Understanding	\$11,100		\$11,100
Task 3 – Field Condition Assessment	\$34,150	\$2,650	\$36,800
Task 4 – Existing System Evaluation	\$28,150		\$28,150
Task 5 – Proposed Expansion Evaluation	\$31,250		\$31,250
Task 6 – Prioritized Plan and Report	\$28,700		\$28,700
Total	\$154,850	\$2,650	\$157,500

This proposal and its contents shall not be duplicated, used or disclosed — in whole or in part — for any purpose other than to evaluate the proposal. This proposal is not intended to be binding or form the terms of a contract. The scope and price of this proposal will be superseded by the contract. If this proposal is accepted and a contract is awarded to Arcadis as a result of — or in connection with — the submission of this proposal, Arcadis and/or the client shall have the right to make appropriate revisions of its terms, including scope and price, for purposes of the contract. Further, client shall have the right to duplicate, use or disclose the data contained in this proposal only to the extent provided in the resulting contract.



AGREEMENT BETWEEN OWNER AND ENGINEER FOR PROFESSIONAL SERVICES

THIS IS AN AGREEMENT effective as of August 11 , 2026 ("Effective Date") between
Board of Public Works, City of South Bend, Indiana ("Owner") and
Arcadis U.S., Inc. ("Engineer").

Owner's Project, of which Engineer's services under this Agreement are a part, is generally identified as follows:

Smart Sewer Upgrades Evaluation ("Project").

Engineer's services under this Agreement are generally identified as follows:

Evaluation of the City's smart sewer system to confirm upgrade improvements.

Owner and Engineer further agree as follows:

ARTICLE 1 – SERVICES OF ENGINEER

1.01 Scope

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

ARTICLE 2 – OWNER'S RESPONSIBILITIES

2.01 General

- A. Owner shall have the responsibilities set forth herein and in Exhibit B.
- B. Owner shall pay Engineer as set forth in Exhibit C.
- C. Owner shall be responsible for, and Engineer may rely upon, the accuracy and completeness of all requirements, programs, instructions, reports, data, and other information furnished by Owner to Engineer pursuant to this Agreement. Engineer may use such requirements, programs,

instructions, reports, data, and information in performing or furnishing services under this Agreement.

ARTICLE 3 – SCHEDULE FOR RENDERING SERVICES

3.01 Commencement

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

3.02 Time for Completion

- A. Engineer shall complete its obligations within a reasonable time. Specific periods of time for rendering services are set forth or specific dates by which services are to be completed are provided in Exhibit A, and are hereby agreed to be reasonable.
- B. If, through no fault of Engineer, such periods of time or dates are changed, or the orderly and continuous progress of Engineer's services is impaired, or Engineer's services are delayed or suspended, then the time for completion of Engineer's services, and the rates and amounts of Engineer's compensation, shall be adjusted equitably.
- C. If Owner authorizes changes in the scope, extent, or character of the Project, then the time for completion of Engineer's services, and the rates and amounts of Engineer's compensation, shall be adjusted equitably.
- D. Owner shall make decisions and carry out its other responsibilities in a timely manner so as not to delay the Engineer's performance of its services.
- E. If Engineer fails, through its own fault, 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, if any, resulting from such failure.

ARTICLE 4 – INVOICES AND PAYMENTS

4.01 Invoices

- A. *Preparation and Submittal of Invoices:* Engineer shall prepare invoices in accordance with its standard invoicing practices and the terms of Exhibit C. Engineer shall submit its invoices to Owner on a monthly basis. Invoices are due and payable within 35 days of receipt.

4.02 Payments

- A. *Application to Interest and Principal:* Payment will be credited first to any interest owed to Engineer and then to principal.
- B. *Failure to Pay:* If Owner fails to make any payment due Engineer for services and expenses within 30 days after receipt of Engineer's invoice, then:
 - 1. ~~amounts due Engineer will be increased at the rate of 1.0% per month (or the maximum rate of interest permitted by law, if less) from said thirtieth day; and~~

2. Engineer may, after giving seven days written notice to Owner, suspend services under this Agreement until Owner has paid in full all **non-disputed** amounts due for services, expenses, and other related charges. Owner waives any and all claims against Engineer for any such suspension.
- C. *Disputed Invoices:* If Owner contests an invoice, Owner shall promptly advise Engineer of the specific basis for doing so, may withhold only that portion so contested, and must pay the undisputed portion.
- D. *Legislative Actions:* If after the Effective Date any governmental entity takes a legislative action that imposes taxes, fees, or charges on Engineer's services or compensation under this Agreement, then the Engineer may invoice such new taxes, fees, or charges as a Reimbursable Expense to which a factor of 1.0 shall be applied. Owner shall reimburse Engineer for the cost of such invoiced new taxes, fees, and charges; such reimbursement shall be in addition to the compensation to which Engineer is entitled under the terms of Exhibit C.

ARTICLE 5 – OPINIONS OF COST

5.01 *Opinions of Probable Construction Cost*

- A. Engineer's opinions of probable Construction Cost are to be made on the basis of Engineer's experience and qualifications and represent Engineer's best judgment as an experienced and qualified professional generally familiar with the construction industry. However, because Engineer has no control over the cost of labor, materials, equipment, or services furnished by others, or over contractors' methods of determining prices, or over competitive bidding or market conditions, Engineer cannot and does not guarantee that proposals, bids, or actual Construction Cost will not vary from opinions of probable Construction Cost prepared by Engineer. If Owner requires greater assurance as to probable Construction Cost, Owner must employ an independent cost estimator as provided in Exhibit B.

5.02 *Designing to Construction Cost Limit*

- A. If a Construction Cost limit is established between Owner and Engineer, such Construction Cost limit and a statement of Engineer's rights and responsibilities with respect thereto will be specifically set forth in Exhibit F, "Construction Cost Limit," to this Agreement.

5.03 *Opinions of Total Project Costs*

- A. The services, if any, of Engineer with respect to Total Project Costs shall be limited to assisting the Owner in collating the various cost categories which comprise Total Project Costs. Engineer assumes no responsibility for the accuracy of any opinions of Total Project Costs.

ARTICLE 6 – GENERAL CONSIDERATIONS

6.01 *Standards of Performance*

- A. *Standard of Care:* The standard of care for all professional engineering and related services performed or furnished by Engineer 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. Engineer makes no warranties, express or implied, under this Agreement or otherwise, in connection with Engineer's services.

- B. *Technical Accuracy:* Owner shall not be responsible for discovering deficiencies in the technical accuracy of Engineer's services. Engineer shall correct deficiencies in technical accuracy without additional compensation, unless such corrective action is directly attributable to deficiencies in Owner-furnished information.
- C. *Consultants:* Engineer may employ such Consultants as Engineer 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 6.01.A, Engineer and its Consultants 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. Engineer and Owner shall comply with applicable Laws and regulations.
 - 2. Prior to the Effective Date, Owner provided to Engineer in writing any and all policies and procedures of Owner applicable to Engineer's performance of services under this Agreement. provided to Engineer in writing. Engineer shall comply with such policies and procedures, subject to the standard of care set forth in Paragraph 6.01.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. Changes after the Effective Date to these Laws and Regulations, or to Owner-provided written policies and procedures, may be the basis for modifications to Owner's responsibilities or to Engineer's scope of services, times of performance, or compensation.
- F. Engineer shall not be required to sign any documents, no matter by whom requested, that would result in the Engineer having to certify, guarantee, or warrant the existence of conditions whose existence the Engineer cannot ascertain. Owner agrees not to make resolution of any dispute with the Engineer or payment of any amount due to the Engineer in any way contingent upon the Engineer signing any such documents.
- G. The general conditions for any construction contract documents prepared hereunder are to be the "Standard General Conditions of the Construction Contract" as prepared by the Engineers Joint Contract Documents Committee (EJCDC C-700, 2007 Edition) unless both parties mutually agree to use other general conditions by specific reference in Exhibit J.
- H. Engineer shall not at any time supervise, direct, control, or have authority over any contractor work, nor shall Engineer have authority over or be responsible for the means, methods, techniques, sequences, or procedures of construction selected or used by any contractor, or the safety precautions and programs incident thereto, for security or safety at the Site, nor for any

failure of a contractor to comply with Laws and Regulations applicable to such contractor's furnishing and performing of its work.

- I. Engineer neither guarantees the performance of any Contractor nor assumes responsibility for any Contractor's failure to furnish and perform the Work in accordance with the Contract Documents.
- J. Engineer shall not provide or have any responsibility for surety bonding or insurance-related advice, recommendations, counseling, or research, or enforcement of construction insurance or surety bonding requirements.
- K. Engineer shall not be responsible for the acts or omissions of any Contractor, Subcontractor, or Supplier, or of any of their agents or employees or of any other persons (except Engineer's own agents, employees, and Consultants) at the Site or otherwise furnishing or performing any Work; or for any decision made regarding the Contract Documents, or any application, interpretation, or clarification, of the Contract Documents, other than those made by Engineer.
- L. While at the Site, Engineer's employees and representatives shall comply with the specific applicable requirements of Contractor's and Owner's safety programs of which Engineer has been informed in writing.

6.02 *Design Without Construction Phase Services*

- A. Engineer shall be responsible only for those Construction Phase services expressly required of Engineer in Exhibit A, Paragraph A1.05. With the exception of such expressly required services, Engineer shall have no design, Shop Drawing review, or other obligations during construction and Owner assumes all responsibility for the application and interpretation of the Contract Documents, review and response to Contractor claims, contract administration, processing Change Orders, revisions to the Contract Documents during construction, construction surety bonding and insurance requirements, construction observation and review, review of payment applications, and all other necessary Construction Phase engineering and professional services. Owner waives all claims against the Engineer that may be connected in any way to Construction Phase engineering or professional services except for those services that are expressly required of Engineer in Exhibit A, Paragraph A1.05.

6.03 *Use of Documents*

- A. **The Owner acknowledges the Engineer's construction documents, including all electronic files, as instruments of professional services. Nevertheless, the final construction documents, including all electronic files, prepared under this agreement shall become the property of the Owner upon completion of services and payment in full of all monies due to the Engineer. The Owner shall not reuse or make any modification to the construction documents without the prior written authorization of the Engineer.** ~~All Documents are instruments of service in respect to this Project, and Engineer shall retain an ownership and property interest therein (including the copyright and the right of reuse at the discretion of the Engineer) whether or not the Project is completed. Owner shall not rely in any way on any Document unless it is in printed form, signed or sealed by the Engineer or one of its Consultants.~~
- B. Either party to this Agreement may rely that data or information set forth on paper (also known as hard copies) that the party receives from the other party by mail, hand delivery, or facsimile, are

the items that the other party intended to send. Files in electronic media format of text, data, graphics, or other types that are furnished by one party to the other are furnished only for convenience, not reliance by the receiving party. Any conclusion or information obtained or derived from such electronic files will be at the user's sole risk. If there is a discrepancy between the electronic files and the hard copies, the hard copies govern. If the parties agree to other electronic transmittal procedures, such are set forth in Exhibit J.

- C. Because data stored in electronic media format can deteriorate or be modified inadvertently or otherwise without authorization of the data's creator, the party receiving electronic files agrees that it will perform acceptance tests or procedures within 60 days, after which the receiving party shall be deemed to have accepted the data thus transferred. Any transmittal errors detected within the 60-day acceptance period will be corrected by the party delivering the electronic files.
- D. When transferring documents in electronic media format, the transferring party makes no representations as to long-term compatibility, usability, or readability of such documents resulting from the use of software application packages, operating systems, or computer hardware differing from those used by the documents' creator.
- E. Owner may make and retain copies of Documents for information and reference in connection with use on the Project by Owner. Engineer grants Owner a limited license to use the Documents on the Project, extensions of the Project, and for related uses of the Owner, subject to receipt by Engineer of full payment for all services relating to preparation of the Documents and subject to the following limitations: (1) Owner acknowledges that such Documents are not intended or represented to be suitable for use on the Project unless completed by Engineer, 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 Engineer; (2) any such use or reuse, or any modification of the Documents, without written verification, completion, or adaptation by Engineer, as appropriate for the specific purpose intended, will be at Owner's sole risk and without liability or legal exposure to Engineer or to its officers, directors, members, partners, agents, employees, and Consultants; (3) Owner shall indemnify and hold harmless Engineer and its officers, directors, members, partners, agents, employees, and Consultants 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 Engineer; and (4) such limited license to Owner shall not create any rights in third parties.
- F. If Engineer 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 Engineer at rates or in an amount to be agreed upon by Owner and Engineer.
- G. **At completion of any survey services and upon payment of monies due the Engineer for those services, the Engineer shall provide the owner with all survey data and drawings, upon which it will become the property of the Owner.**
- H. **At completion of any traffic study services and upon payment of monies due the Engineer for those services, the Engineer shall provide the owner with all data and models, upon which it will become the property of the Owner.**

- I. **At completion of any geotechnical or material investigation services and upon payment of monies due the Engineer for those services, the Engineer shall provide the owner with all data, upon which it will become the property of the Owner.**

6.04 *Insurance*

- A. Engineer shall procure and maintain insurance as set forth in Exhibit G, "Insurance." Engineer shall cause Owner to be listed as an additional insured on any applicable general liability insurance policy carried by Engineer.
- B. Owner shall procure and maintain insurance as set forth in Exhibit G, "Insurance." ~~Owner shall cause Engineer and its Consultants to be listed as additional insureds on any general liability policies and as loss payees on any property insurance policies carried by Owner which are applicable to the Project.~~
- C. Owner shall require Contractor to purchase and maintain policies of insurance covering workers' compensation, general liability, property damage (other than to the Work itself), motor vehicle damage and injuries, and other insurance necessary to protect Owner's and Engineer's interests in the Project. ~~Owner shall require Contractor to cause Engineer and its Consultants to be listed as additional insureds with respect to such liability and other insurance purchased and maintained by Contractor for the Project.~~
- D. ~~Owner and~~ Engineer shall each deliver to the **Owner** ~~other~~ certificates of insurance evidencing the coverages indicated in Exhibit G. Such certificates shall be furnished prior to commencement of Engineer's services and at renewals thereafter during the life of the Agreement.
- E. ~~All policies of property insurance relating to the Project shall contain provisions to the effect that Engineer's and its Consultants' interests are covered and that in the event of payment of any loss or damage the insurers will have no rights of recovery against Engineer or its Consultants, or any insureds, additional insureds, or loss payees thereunder.~~
- F. All policies of insurance shall contain a provision or endorsement that the coverage afforded will not be canceled or reduced in limits by endorsement, and that renewal will not be refused, until at least 30 days prior written notice has been given to Owner ~~and Engineer~~ and to each other additional insured (if any) to which a certificate of insurance has been issued.
- G. At any time, Owner may request that Engineer or its Consultants, at Owner's sole expense, provide additional insurance coverage, increased limits, or revised deductibles that are more protective than those specified in Exhibit G. If so requested by Owner, and if commercially available, Engineer shall obtain and shall require its Consultants to obtain such additional insurance coverage, different limits, or revised deductibles for such periods of time as requested by Owner, and Exhibit G will be supplemented to incorporate these requirements.

6.05 *Suspension and Termination*

- A. *Suspension:*
 1. By Owner: Owner may suspend the Project for up to 90 days upon seven days written notice to Engineer.

2. By Engineer: Engineer may, after giving seven days written notice to Owner, suspend services under this Agreement if Engineer's performance has been substantially delayed through no fault of Engineer.
- B. *Termination:* The obligation to provide further services under this Agreement may be terminated:
1. For cause,
 - a. By either party upon 30 days written notice in the event of substantial failure by the other party to perform in accordance with the terms hereof through no fault of the terminating party.
 - b. By Engineer:
 - 1) upon seven days written notice if Owner demands that Engineer furnish or perform services contrary to Engineer's responsibilities as a licensed professional; or
 - 2) upon seven days written notice if the Engineer's services for the Project are delayed or suspended for more than 90 days for reasons beyond Engineer's control.
 - 3) Engineer shall have no liability to Owner on account of such termination.
 - c. Notwithstanding the foregoing, this Agreement will not terminate under Paragraph 6.05.B.1.a if the party receiving such notice begins, within seven 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 shall extend up to, but in no case more than, 60 days after the date of receipt of the notice.
 2. For convenience,
 - a. By Owner effective upon Engineer's receipt of notice from Owner.
- C. *Effective Date of Termination:* The terminating party under Paragraph 6.05.B may set the effective date of termination at a time up to 30 days later than otherwise provided to allow Engineer 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.
- D. *Payments Upon Termination:*
1. In the event of any termination under Paragraph 6.05, Engineer 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 shall have the limited right to the use of Documents, at Owner's sole risk, subject to the provisions of Paragraph 6.03.E.

2. In the event of termination by Owner for convenience or by Engineer for cause, Engineer shall be entitled, in addition to invoicing for those items identified in Paragraph 6.05.D.1, to invoice Owner and to payment of a reasonable amount for services and expenses directly attributable to termination, both before and after the effective date of termination, such as reassignment of personnel, costs of terminating contracts with Engineer's Consultants, and other related close-out costs, using methods and rates for Additional Services as set forth in Exhibit C.

6.06 *Controlling Law*

- A. This Agreement is to be governed by the law of the state or jurisdiction in which the Project is located.

6.07 *Successors, Assigns, and Beneficiaries*

- A. Owner and Engineer are hereby bound and the successors, executors, administrators, and legal representatives of Owner and Engineer (and to the extent permitted by Paragraph 6.07.B the assigns of Owner and Engineer) 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 Engineer may assign, sublet, or transfer any rights under or interest (including, but without limitation, moneys that are due or may become due) in this Agreement without the written consent of the other, except to the extent that any assignment, subletting, or transfer is mandated or restricted 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. Nothing in this Agreement shall be construed to create, impose, or give rise to any duty owed by Owner or Engineer to any Contractor, Subcontractor, Supplier, other individual or entity, or to any surety for or employee of any of them.
 2. All duties and responsibilities undertaken pursuant to this Agreement will be for the sole and exclusive benefit of Owner and Engineer and not for the benefit of any other party.
 3. Owner agrees that the substance of the provisions of this Paragraph 6.07.C shall appear in the Contract Documents.

6.08 *Dispute Resolution*

- ~~A. Owner and Engineer agree to negotiate all disputes between them in good faith for a period of 30 days from the date of notice prior to invoking the procedures of Exhibit H or other provisions of this Agreement, or exercising their rights under law.~~

- B. ~~If the parties fail to resolve a dispute through negotiation under Paragraph 6.08.A, then either or both may invoke the procedures of Exhibit H.~~ If Exhibit H is not included, or if no dispute resolution method is specified in Exhibit H, then the parties may exercise their rights under law.

6.09 *Environmental Condition of Site*

- A. Owner has disclosed to Engineer in writing the existence of all known and suspected Asbestos, PCBs, Petroleum, Hazardous Waste, Radioactive Material, hazardous substances, and other Constituents of Concern located at or near the Site, including type, quantity, and location.
- B. Owner represents to Engineer that to the best of its knowledge no Constituents of Concern, other than those disclosed in writing to Engineer, exist at the Site.
- C. If Engineer encounters or learns of an undisclosed Constituent of Concern at the Site, then Engineer shall notify (1) Owner and (2) appropriate governmental officials if Engineer reasonably concludes that doing so is required by applicable Laws or Regulations.
- D. It is acknowledged by both parties that Engineer's scope of services does not include any services related to Constituents of Concern. If Engineer or any other party encounters an undisclosed Constituent of Concern, or if investigative or remedial action, or other professional services, are necessary with respect to disclosed or undisclosed Constituents of Concern, then Engineer may, at its option and without liability for consequential or any other damages, suspend performance of services on the portion of the Project affected thereby until Owner: (1) retains appropriate specialist consultants or contractors to identify and, as appropriate, abate, remediate, or remove the Constituents of Concern; and (2) warrants that the Site is in full compliance with applicable Laws and Regulations.
- E. If the presence at the Site of undisclosed Constituents of Concern adversely affects the performance of Engineer's services under this Agreement, then the Engineer shall have the option of (1) accepting an equitable adjustment in its compensation or in the time of completion, or both; or (2) terminating this Agreement for cause on 30 days notice.
- F. Owner acknowledges that Engineer is performing professional services for Owner and that Engineer is not and shall 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 Engineer's activities under this Agreement.

6.10 *Indemnification and Mutual Waiver*

- A. *Indemnification by Engineer:* To the fullest extent permitted by law, Engineer shall indemnify and hold harmless Owner, and Owner's officers, directors, members, partners, agents, consultants, and employees from reasonable claims, costs, losses, and damages arising out of or relating to the Project, provided that any such claim, cost, loss, or damage 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, but only to the extent caused by any negligent act or omission of Engineer or Engineer's officers, directors, members, partners, agents,

employees, or Consultants. **This indemnification provision is subject to and limited by the provisions, if any, agreed to by Owner and Engineer in Exhibit I, "Limitations of Liability."**

- B. *Indemnification by Owner:* Owner shall indemnify and hold harmless Engineer and its officers, directors, members, partners, agents, employees, and Consultants as required by Laws and Regulations and to the extent (if any) required in Exhibit I, Limitations of Liability.
- C. *Environmental Indemnification:* To the fullest extent permitted by law, Owner shall indemnify and hold harmless Engineer and its officers, directors, members, partners, agents, employees, and Consultants from and against any and all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys and other professionals, and all court, arbitration, or other dispute resolution costs) 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, or damage 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 shall obligate Owner to indemnify any individual or entity from and against the consequences of that individual's or entity's own negligence or willful misconduct.
- D. *Percentage Share of Negligence:* To the fullest extent permitted by law, 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, shall not exceed the percentage share that the party's negligence bears to the total negligence of Owner, Engineer, and all other negligent entities and individuals.
- E. *Mutual Waiver:* To the fullest extent permitted by law, Owner and Engineer waive against each other, and the other's employees, officers, directors, members, agents, insurers, partners, and consultants, 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 the Project.

6.11 *Miscellaneous Provisions*

- A. *Notices:* Any notice required under this Agreement will be in writing, addressed to the appropriate party at its address on the signature page and given personally, by facsimile, by registered or certified mail postage prepaid, or by a commercial courier service. All notices shall be effective upon the date of receipt.
- B. *Survival:* 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 shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon Owner and Engineer, which agree that the Agreement shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken provision.

- D. *Waiver*: A party's non-enforcement of any provision shall not constitute a waiver of that provision, nor shall it affect the enforceability of that provision or of the remainder of this Agreement.
- E. *Accrual of Claims*: To the fullest extent permitted by law, all causes of action arising under this Agreement shall be deemed to have accrued, and all statutory periods of limitation shall commence, no later than the date of Substantial Completion.

ARTICLE 7 – DEFINITIONS

7.01 *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 provisions:
1. *Additional Services* – The services to be performed for or furnished to Owner by Engineer in accordance with Part 2 of Exhibit A of this Agreement.
 2. *Agreement* – This written contract for professional services between Owner and Engineer, including all exhibits identified in Paragraph 8.01 and any duly executed amendments.
 3. *Asbestos* – Any material that contains more than one percent asbestos and is friable or is releasing asbestos fibers into the air above current action levels established by the United States Occupational Safety and Health Administration.
 4. *Basic Services* – The services to be performed for or furnished to Owner by Engineer in accordance with Part 1 of Exhibit A of this Agreement.
 5. *Construction Contract* – The entire and integrated written agreement between Owner and Contractor concerning the Work.
 6. *Construction Cost* – The cost to Owner of those portions of the entire Project designed or specified by Engineer. Construction Cost does not include costs of services of Engineer or other design professionals and consultants; cost of land or rights-of-way, or compensation for damages to properties; 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 pursuant to Exhibit B of this Agreement. Construction Cost is one of the items comprising Total Project Costs.
 7. *Constituent of Concern* – Any substance, product, waste, or other material of any nature whatsoever (including, but not limited to, Asbestos, Petroleum, Radioactive Material, and PCBs) which is or becomes listed, regulated, or addressed pursuant to (a) the Comprehensive Environmental Response, Compensation and Liability Act, 42 U.S.C. §§9601 et seq. ("CERCLA"); (b) the Hazardous Materials Transportation Act, 49 U.S.C. §§1801 et seq.; (c) the Resource Conservation and Recovery Act, 42 U.S.C. §§6901 et seq. ("RCRA"); (d) the Toxic Substances Control Act, 15 U.S.C. §§2601 et seq.; (e) the Clean Water Act, 33 U.S.C. §§1251 et seq.; (f) the Clean Air Act, 42 U.S.C. §§7401 et

seq.; and (g) any other federal, state, or local statute, law, rule, regulation, ordinance, resolution, code, order, or decree regulating, relating to, or imposing liability or standards of conduct concerning, any hazardous, toxic, or dangerous waste, substance, or material.

8. *Consultants* – Individuals or entities having a contract with Engineer to furnish services with respect to this Project as Engineer's independent professional associates and consultants; subcontractors; or vendors.
9. *Contract Documents* – Those items so designated in the Construction Contract, including the Drawings, Specifications, construction agreement, and general and supplementary conditions. Only printed or hard copies of the items listed in the Construction Contract are Contract Documents. Approved Shop Drawings, other Contractor submittals, and the reports and drawings of subsurface and physical conditions are not Contract Documents.
10. *Contractor* – The entity or individual with which Owner has entered into a Construction Contract.
11. *Documents* – Data, reports, Drawings, Specifications, Record Drawings, and other deliverables, whether in printed or electronic media format, provided or furnished in appropriate phases by Engineer to Owner pursuant to this Agreement.
12. *Drawings* – That part of the Contract Documents prepared or approved by Engineer which graphically shows the scope, extent, and character of the Work to be performed by Contractor. Shop Drawings are not Drawings as so defined.
13. *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.
14. *Engineer* – The individual or entity named as such in this Agreement.
15. *Hazardous Waste* – The term Hazardous Waste shall have the meaning provided in Section 1004 of the Solid Waste Disposal Act (42 USC Section 6903) as amended from time to time.
16. *Laws and Regulations; Laws or Regulations* – Any and all applicable laws, rules, regulations, ordinances, codes, and orders of any and all governmental bodies, agencies, authorities, and courts having jurisdiction.
17. *Owner* – The individual or entity with which Engineer has entered into this Agreement and for which the Engineer'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.
18. *PCBs* – Polychlorinated biphenyls.
19. *Petroleum* – Petroleum, including crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute), such as oil, petroleum, fuel oil, oil sludge, oil refuse, gasoline, kerosene, and oil mixed with other non-hazardous waste and crude oils.

20. *Project* – The total construction of which the Work to be performed under the Contract Documents may be the whole, or a part.
21. *Radioactive Material* – Source, special nuclear, or byproduct material as defined by the Atomic Energy Act of 1954 (42 USC Section 2011 et seq.) as amended from time to time.
22. *Record Drawings* – Drawings depicting the completed Project, prepared by Engineer as an Additional Service and based solely 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 Engineer and annotated by Contractor to show changes made during construction.
23. *Reimbursable Expenses* – The expenses incurred directly by Engineer in connection with the performing or furnishing of Basic and Additional Services for the Project.
24. *Resident Project Representative* – The authorized representative of Engineer assigned to assist Engineer at the Site during the Construction Phase. As used herein, the term Resident Project Representative or "RPR" includes any assistants or field staff of Resident Project Representative agreed to by Owner. The duties and responsibilities of the Resident Project Representative, if any, are as set forth in Exhibit D.
25. *Samples* – Physical examples of materials, equipment, or workmanship that are representative of some portion of the Work and which establish the standards by which such portion of the Work will be judged.
26. *Shop Drawings* – All drawings, diagrams, illustrations, schedules, and other data or information which are specifically prepared or assembled by or for Contractor and submitted by Contractor to illustrate some portion of the Work.
27. *Site* – Lands or areas to be indicated in the Contract Documents as being furnished by Owner upon which the Work is to be performed, including rights-of-way and easements for access thereto, and such other lands furnished by Owner which are designated for the use of Contractor.
28. *Specifications* – That part of the Contract Documents consisting of written technical descriptions of materials, equipment, systems, standards, and workmanship as applied to the Work and certain administrative details applicable thereto.
29. *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 at the Site.
30. *Substantial Completion* – The time at which the Work (or a specified part thereof) has progressed to the point where, in the opinion of Engineer, the Work (or a specified part thereof) is sufficiently complete, in accordance with the 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.

31. *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 Subcontractor.
32. *Total Project Costs* – The sum of the Construction Cost, allowances for contingencies, and the total costs of services of Engineer 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, 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 pursuant to Exhibit B of this Agreement.
33. *Work* – The entire construction or the various separately identifiable parts thereof required to be provided under the Contract Documents. Work includes and is the result of performing or providing all labor, services, and documentation necessary to produce such construction, and furnishing, installing, and incorporating all materials and equipment into such construction, all as required by the Contract Documents.

ARTICLE 8 – EXHIBITS AND SPECIAL PROVISIONS

8.01 *Exhibits Included:*

- A. Exhibit A, Engineer's Services.
- B. Exhibit B, Owner's Responsibilities.
- C. Exhibit C, Payments to Engineer for Services and Reimbursable Expenses.
- ~~D. Exhibit D, Duties, Responsibilities and Limitations of Authority of Resident Project Representative. NOT INCLUDED~~
- ~~E. Exhibit E, Notice of Acceptability of Work. NOT INCLUDED~~
- ~~F. Exhibit F, Construction Cost Limit. NOT INCLUDED~~
- G. Exhibit G, Insurance.
- ~~H. Exhibit H, Dispute Resolution. NOT INCLUDED~~
- I. Exhibit I, Limitations of Liability.
- ~~J. Exhibit J, Special Provisions. NOT INCLUDED~~
- ~~K. Exhibit K, Amendment to Owner-Engineer Agreement. NOT INCLUDED~~

8.02 *Total Agreement:*

- A. This Agreement, (together with the exhibits identified above) constitutes the entire agreement between Owner and Engineer and supersedes all prior written or oral understandings. This

Agreement may only be amended, supplemented, modified, or canceled by a duly executed written instrument based on the format of Exhibit K to this Agreement.

8.03 *Designated Representatives:*

- A. With the execution of this Agreement, Engineer and Owner shall designate specific individuals to act as Engineer's and Owner's representatives with respect to the services to be performed or furnished by Engineer and responsibilities of Owner under this Agreement. Such an individual shall have authority to transmit instructions, receive information, and render decisions relative to the Project on behalf of the respective party whom the individual represents.

8.04 *Engineer's Certifications:*

- A. Engineer 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 any thing 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.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement, the Effective Date of which is indicated on page 1.

Owner:

**CITY OF SOUTH BEND, INDIANA
BOARD OF PUBLIC WORKS**

Elizabeth A. Maradik, President



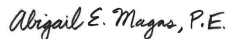
Joseph R. Molnar, Vice President



Murray L. Miller, Member



Breana M. Micou, Member



Abigail E. Magas, Member

Attest:

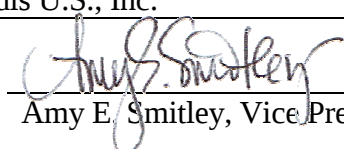


Hillary R. Horvath, Clerk

Date: August 11, 2026

Engineer:

Arcadis U.S., Inc.

By: 

Title: Amy E. Smitley, Vice President

Date: July 23, 2026

Engineer License or Firm's
Certificate No. _____

State of: _____

Address for giving notices:
215 S Martin Luther King Jr Blvd
South Bend, IN 46601

Address for giving notices:
47 S. Meridian Street, Suite 200
Indianapolis, IN 46204

Designated Representative (Paragraph 8.03.A):

Kieran Fahey

Title: Director CSO LTCP

Phone Number: (574) 235-5993

Facsimile Number: (574) 235-9171

E-Mail Address: kfahey@southbendin.gov

Designated Representative (Paragraph 8.03.A):

Amy E. Smitley, PE

Title: Vice President

Phone Number: (317) 273-9144

Facsimile Number: _____

E-Mail Address: amy.smitley@arcadis.com

This is **EXHIBIT A**, consisting of 3 pages, referred to in and part of the **Agreement between Owner and Engineer for Professional Services** dated _____, _____.

Engineer's Services

Article 1 of the Agreement is supplemented to include the following agreement of the parties.

Engineer shall provide Basic and Additional Services as set forth below.

PART 1 – BASIC SERVICES

A1.01 Refer to attached Smart Sewer Upgrades Evaluation dated July 2026.

PART 2 – ADDITIONAL SERVICES

A2.01 *Additional Services Requiring Owner's Written Authorization*

- A. If authorized in writing by Owner, Engineer shall furnish or obtain from others Additional Services of the types listed below.
1. Services to make measured drawings of or to investigate existing conditions or facilities, or to verify the accuracy of drawings or other information furnished by Owner or others.
 2. Services resulting from significant changes in the scope, extent, or character of the portions of the Project designed or specified by Engineer or its design requirements including, but not limited to, changes in size, complexity, Owner's schedule, character of construction, or method of financing; and revising previously accepted studies, reports, Drawings, Specifications, or Contract Documents when such revisions are required by changes in Laws and Regulations enacted subsequent to the Effective Date or are due to any other causes beyond Engineer's control.
 3. Services resulting from Owner's request to evaluate additional Study and Report Phase alternative solutions beyond those identified in Paragraph A1.01.
 4. Services required as a result of Owner's providing incomplete or incorrect Project information to Engineer.
 5. Furnishing services of Consultants for other than Basic Services.
 6. Preparing Bidding Documents or Contract Documents and Bid Phase services following the evaluation as requested by Owner for the Work or a portion thereof.
 7. Assistance in connection with Bid protests, rebidding, or renegotiating contracts for construction, materials, equipment, or services, except when such assistance is required by Exhibit F.
 8. Providing construction surveys and staking to enable Contractor to perform its work other than as required under Paragraph A1.05.A.6, and any type of property surveys or related

engineering services needed for the transfer of interests in real property; and providing other special field surveys.

9. Providing Construction Phase services beyond the original date for completion and readiness for final payment of Contractor.
10. Providing assistance in responding to the presence of any Constituent of Concern at the Site, in compliance with current Laws and Regulations.
11. Preparation of operation and maintenance manuals.
12. Assistance to Owner in training Owner's staff to operate and maintain Project equipment and systems.
13. Assistance to Owner in developing procedures for (a) control of the operation and maintenance of Project equipment and systems, and (b) related record-keeping.
25. Other services performed or furnished by Engineer not otherwise provided for in this Agreement.

A2.02 Additional Services Not Requiring Owner's Written Authorization

- A. Engineer shall advise Owner in advance that Engineer will immediately commence to perform or furnish the Additional Services of the types listed below should Owner move forward with Design, Bid and Construction Phase services above. For such Additional Services, Engineer need not request or obtain specific advance written authorization from Owner. Engineer shall cease performing or furnishing such Additional Services upon receipt of written notice from Owner.
 1. Services in connection with work change directives and change orders to reflect changes requested by Owner.
 2. Services in making revisions to Drawings and Specifications occasioned by the acceptance of substitute materials or equipment other than "or-equal" items; services after the award of the Construction Contract in evaluating and determining the acceptability of a proposed "or equal" or substitution which is found to be inappropriate for the Project; evaluation and determination of an excessive number of proposed "or equals" or substitutions, whether proposed before or after award of the Construction Contract.
 3. Services resulting from significant delays, changes, or price increases occurring as a direct or indirect result of materials, equipment, or energy shortages.
 4. Additional or extended services during construction made necessary by (1) emergencies or acts of God endangering the Work (advance notice not required), (2) the presence at the Site of any Constituent of Concern or items of historical or cultural significance, (3) Work damaged by fire or other cause during construction, (4) a significant amount of defective, neglected, or delayed work by Contractor, (5) acceleration of the progress schedule involving services beyond normal working hours, or (6) default by Contractor.

5. Services (other than Basic Services during the Post-Construction Phase) in connection with any partial utilization of any part of the Work by Owner prior to Substantial Completion.
6. Evaluating an unreasonable claim or an excessive number of claims submitted by Contractor or others in connection with the Work.
7. Services during the Construction Phase rendered after the original date for completion of the Work referred to in A1.05.B.
8. Reviewing a Shop Drawing more than three times, as a result of repeated inadequate submissions by Contractor.
9. While at the Site, compliance by Engineer and its staff with those terms of Owner's or Contractor's safety program provided to Engineer subsequent to the Effective Date that exceed those normally required of engineering personnel by federal, state, or local safety authorities for similar construction sites.

Owner's Responsibilities

Article 2 of the Agreement is supplemented to include the following agreement of the parties.

B2.01 In addition to other responsibilities of Owner as set forth in this Agreement, Owner shall at its expense:

- A. Provide Engineer with all criteria and full information as to Owner's requirements for the Project, including design objectives and constraints, space, capacity and performance requirements, flexibility, and expandability, and any budgetary limitations; and furnish copies of all design and construction standards which Owner will require to be included in the Drawings and Specifications; and furnish copies of Owner's standard forms, conditions, and related documents for Engineer to include in the Bidding Documents, when applicable.
- B. Furnish to Engineer any other available information pertinent to the Project including reports and data relative to previous designs, or investigation at or adjacent to the Site.
- C. Following Engineer's assessment of initially-available Project information and data and upon Engineer's request, furnish or otherwise make available such additional Project related information and data as is reasonably required to enable Engineer to complete its Basic and Additional Services. Such additional information or data would generally include the following:
 - 1. Explorations and tests of subsurface conditions at or contiguous to the Site, drawings of physical conditions relating to existing surface or subsurface structures at the Site, or hydrographic surveys, with appropriate professional interpretation thereof.
 - 2. Environmental assessments, audits, investigations, and impact statements, and other relevant environmental or cultural studies as to the Project, the Site, and adjacent areas.
 - 3. Data or consultations as required for the Project but not otherwise identified in the Agreement or the Exhibits thereto.
- D. Give prompt written notice to Engineer whenever Owner observes or otherwise becomes aware of the presence at the Site of any Constituent of Concern, or of any other development that affects the scope or time of performance of Engineer's services, or any defect or nonconformance in Engineer's services, the Work, or in the performance of any Contractor.
- E. Authorize Engineer to provide Additional Services as set forth in Part 2 of Exhibit A of the Agreement as required.
- F. Arrange for safe access to and make all provisions for Engineer to enter upon public and private property as required for Engineer to perform services under the Agreement.

- G. Examine all alternate solutions, studies, reports, sketches, Drawings, Specifications, proposals, and other documents presented by Engineer (including obtaining advice of an attorney, insurance counselor, and other advisors or consultants as Owner deems appropriate with respect to such examination) and render in writing timely decisions pertaining thereto.
- H. Provide reviews, approvals, and permits from all governmental authorities having jurisdiction to approve all phases of the Project designed or specified by Engineer and such reviews, approvals, and consents from others as may be necessary for completion of each phase of the Project.
- I. Recognizing and acknowledging that Engineer's services and expertise do not include the following services, provide, as required for the Project:
 - 1. Accounting, bond and financial advisory, independent cost estimating, and insurance counseling services.
 - 2. Legal services with regard to issues pertaining to the Project as Owner requires, Contractor raises, or Engineer reasonably requests.
 - 3. Such auditing services as Owner requires to ascertain how or for what purpose Contractor has used the moneys paid.
- J. Place and pay for advertisement for Bids in appropriate publications.
- K. Advise Engineer 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 engineering, and constructibility review.
- L. Furnish to Engineer data as to Owner's anticipated costs for services to be provided by others (including, but not limited to, accounting, bond and financial, independent cost estimating, insurance counseling, and legal advice) for Owner so that Engineer may assist Owner in collating the various cost categories which comprise Total Project Costs.
- M. If Owner designates a construction manager or an individual or entity other than, or in addition to, Engineer to represent Owner at the Site, define and set forth as an attachment to this Exhibit B the duties, responsibilities, and limitations of authority of such other party and the relation thereof to the duties, responsibilities, and authority of Engineer.
- N. Attend the pre-bid conference, bid opening, pre-construction conferences, construction progress and other job related meetings, and Substantial Completion and final payment visits to the Project.
- O. Provide the services of an independent testing laboratory to perform all inspections, tests, and approvals of samples, materials, and equipment required by the Contract Documents, or to evaluate the performance of materials, equipment, and facilities of Owner, prior to their incorporation into the Work with appropriate professional interpretation thereof.
- P. Inform Engineer in writing of any specific requirements of safety or security programs that are applicable to Engineer, as a visitor to the Site.

This is **EXHIBIT C**, consisting of 2 pages, referred to in and part of the **Agreement between Owner and Engineer for Professional Services** dated _____, ____.

Payments to Engineer for Services and Reimbursable Expenses
COMPENSATION PACKET BC-2: Basic Services – Standard Hourly Rates

Article 2 of the Agreement is supplemented to include the following agreement of the parties:

ARTICLE 2 – OWNER’S RESPONSIBILITIES

C2.01 Compensation For Basic Services

A. Owner shall pay Engineer for Basic Services set forth in Exhibit A as follows:

1. An amount equal to the cumulative hours charged to the Project by each class of Engineer’s personnel times Standard Hourly Rates for each applicable billing class for all services performed on the Project, plus Reimbursable Expenses and Engineer’s Consultants’ charges, if any.
2. Engineer’s Reimbursable Expenses Schedule and Standard Hourly Rates are attached to this Exhibit C as Appendices 1 and 2.
3. The total compensation for services under Paragraph C2.01 is estimated to be \$157,500.
4. Engineer may alter the distribution of compensation between individual phases of the work noted herein to be consistent with services actually rendered, but shall not exceed the total estimated compensation amount unless approved in writing by Owner. See also C2.03.C.2 below.
5. The total estimated compensation for Engineer’s services incorporates all labor, overhead, profit, Reimbursable Expenses and Engineer’s Consultants’ charges.
6. The amounts billed for Engineer’s services under Paragraph C2.01 will be based on the cumulative hours charged to the Project during the billing period by each class of Engineer’s employees times Standard Hourly Rates for each applicable billing class, plus Reimbursable Expenses and Engineer’s Consultants’ charges.
7. The Standard Hourly Rates and Reimbursable Expenses Schedule will be adjusted annually (as of January 1, 2026) to reflect equitable changes in the compensation payable to Engineer.

C2.02 Compensation For Reimbursable Expenses

- A. Owner shall pay Engineer for all Reimbursable Expenses at the rates set forth in Appendix 1 to this Exhibit C.
- B. Reimbursable Expenses include the following categories: transportation and subsistence incidental thereto; providing and maintaining field office facilities including furnishings and utilities; toll

telephone calls and mobile phone charges; reproduction of reports, Drawings, Specifications, Bidding Documents, and similar Project-related items in addition to those required under Exhibit A. In addition, if authorized in advance by Owner, Reimbursable Expenses will also include expenses incurred for the use of highly specialized equipment.

- C. The amounts payable to Engineer for Reimbursable Expenses will be the Project-related internal expenses actually incurred or allocated by Engineer, plus all invoiced external Reimbursable Expenses allocable to the Project, the latter multiplied by a factor of 10 percent.

C2.03 Other Provisions Concerning Payment

- A. Whenever Engineer is entitled to compensation for the charges of Engineer's Consultants, those charges shall be the amounts billed by Engineer's Consultants to Engineer times a factor of 10 percent.
- B. Factors. The external Reimbursable Expenses and Engineer's Consultants' factors include Engineer's overhead and profit associated with Engineer's responsibility for the administration of such services and costs.

C. Estimated Compensation Amounts:

1. Engineer's estimate of the amounts that will become payable for specified services are only estimates for planning purposes, are not binding on the parties, and are not the minimum or maximum amounts payable to Engineer under the Agreement.
 2. When estimated compensation amounts have been stated herein and it subsequently becomes apparent to Engineer that the total compensation amount thus estimated will be exceeded, Engineer shall give Owner written notice thereof, allowing Owner to consider its options, including suspension or termination of Engineer's services for Owner's convenience. Upon notice, Owner and Engineer promptly shall review the matter of services remaining to be performed and compensation for such services. Owner shall either exercise its right to suspend or terminate Engineer's services for Owner's convenience, agree to such compensation exceeding said estimated amount, or agree to a reduction in the remaining services to be rendered by Engineer, so that total compensation for such services will not exceed said estimated amount when such services are completed. If Owner decides not to suspend the Engineer's services during the negotiations and Engineer exceeds the estimated amount before Owner and Engineer have agreed to an increase in the compensation due Engineer or a reduction in the remaining services, then Engineer shall be paid for all services rendered hereunder.
- C. To the extent necessary to verify Engineer's charges and upon Owner's timely request, Engineer shall make copies of such records available to Owner at cost.

This is **Appendix 1 to EXHIBIT C**, consisting of 1 pages, referred to in and part of the **Agreement between Owner and Engineer for Professional Services** dated _____, _____.

Reimbursable Expenses Schedule

Current agreements for engineering services stipulate that the Reimbursable Expenses are subject to review and adjustment per Exhibit C. Reimbursable expenses for services performed on the date of the Agreement are:

Mileage (auto)	standard IRS rate/mile
Meals and Lodging	at cost

This is **Appendix 2 to EXHIBIT C**, consisting of 1 pages, referred to in and part of the **Agreement between Owner and Engineer for Professional Services** dated _____, _____.

Standard Hourly Rates Schedule

A. Standard Hourly Rates:

1. Standard Hourly Rates are set forth in this Appendix 2 to this Exhibit C and include salaries and wages paid to personnel in each billing class plus the cost of customary and statutory benefits, general and administrative overhead, non-project operating costs, and operating margin or profit.
2. The Standard Hourly Rates apply only as specified in Article C2.

B. Schedule:

Hourly rates for services performed on or after the date of the Agreement are:

Category	Hourly Rate
Director	\$325
Principal Engineer/Architect/Consultant 2	\$300
Principal Engineer/Architect/Consultant 1	\$265
Senior Engineer/Architect/Consultant	\$205
Project Engineer/Architect/Consultant	\$190
Staff Engineer/Architect/Consultant	\$180
Engineer/Architect/Consultant 2	\$165
Engineer/Architect/Consultant 1	\$145
Technician/Designer/Project Assistant 4	\$180
Technician/Designer/Project Assistant 3	\$150
Technician/Designer/Project Assistant 2	\$135
Technician/Designer/Project Assistant 1	\$125

Insurance

Paragraph 6.04 of the Agreement is supplemented to include the following agreement of the parties.

G6.04 Insurance

A. The limits of liability for the insurance required by Paragraph 6.04.A and 6.04.B of the Agreement are as follows:

1. By Engineer:

- | | |
|--|-------------|
| a. Workers' Compensation: | Statutory |
| b. Employer's Liability -- | |
| 1) Each Accident: | Statutory |
| 2) Disease, Policy Limit: | Statutory |
| 3) Disease, Each Employee: | Statutory |
| c. General Liability -- | |
| 1) Each Occurrence (Bodily Injury and Property Damage): | \$1,000,000 |
| 2) General Aggregate: | \$2,000,000 |
| d. Excess or Umbrella Liability -- | |
| 1) Each Occurrence: | - _____ |
| 2) General Aggregate: | - |
| e. Automobile Liability --Combined Single Limit (Bodily Injury and Property Damage): | |
| 1) Each Accident | \$1,000,000 |
| 2) Aggregate: | \$2,000,000 |
| f. Professional Liability -- | |
| 1) Each Claim Made | \$3,000,000 |
| 2) Annual Aggregate | - |
| g. Other (specify): | - |

2. By Owner:

- a. The City of South Bend is a municipal corporation organized under the laws of the State of Indiana, and is self-insured under provisions of Indiana statutes and local ordinance. Specifically, the City of South Bend maintains blanket insurance coverage over real and personal property, and is covered by a non-reverting insurance premium and liability reserve fund created by the City of South Bend, Ordinance #6657-79, pursuant to Indiana Code 34-13-3-4, as amended from time to time. Under said statute, the City's liability is limited to:
 - 1) Seven hundred thousand dollars (\$700,000) for a cause of action that accrues on or after January 1, 2008; and
 - 2) Five million dollars (\$5,000,000) for injury to or death of all persons in that occurrence;; and
 - 3) A governmental entity or an employee of a governmental entity acting within the scope of employment is not liable for punitive damages.

B. *Additional Insureds:*

- ~~1. The following persons or entities are to be listed on Owner's general liability policies of insurance as additional insureds, and on any applicable property insurance policy as loss payees, as provided in Paragraph 6.04.B:~~

a. _____
Engineer

b. _____
Engineer's Consultant

c. _____
Engineer's Consultant

- ~~2. During the term of this Agreement the Engineer shall notify Owner of any other Consultant to be listed as an additional insured on Owner's general liability and property policies of insurance.~~
3. The Owner shall be listed on Engineer's general liability policy as provided in Paragraph 6.04.A.

This is **EXHIBIT I**, consisting of 1 pages, referred to in and part of the **Agreement between Owner and Engineer for Professional Services** dated _____, _____.

Limitations of Liability

Paragraph 6.10 of the Agreement is supplemented to include the following agreement of the parties:

A. Limitation of Engineer's Liability

1. *Engineer's Liability Limited to Amount of Insurance Proceeds:* Engineer shall procure and maintain insurance as required by and set forth in Exhibit G to this Agreement. Notwithstanding any other provision of this Agreement, and to the fullest extent permitted by law, the total liability, in the aggregate, of Engineer and Engineer's officers, directors, members, partners, agents, employees, and Consultants to Owner and anyone claiming by, through, or under Owner for any and all claims, losses, costs, or damages whatsoever arising out of, resulting from, or in any way related to the Project or the Agreement from any cause or causes, including but not limited to the negligence, professional errors or omissions, strict liability, breach of contract, indemnity obligations, or warranty express or implied, of Engineer or Engineer's officers, directors, members, partners, agents, employees, or Consultants (hereafter "Owner's Claims"), shall not exceed the total the fees paid to Engineer under this Agreement. To the fullest extent permitted by law, in no event shall either Owner or Engineer be liable to the other party for any incidental, indirect, punitive or consequential damages including, but not limited to, loss of revenues or profits, cost of capital, loss of use or opportunity, cost of substitute facilities, good or services arising out of, resulting from, or in any way related to the Project, Engineer Services or this Agreement. The releases, waivers and limitation of liability set forth in this Section shall apply irrespective of the cause including, but not limited to, the negligent acts or omissions, strict liability, fault, breach of contract, tort, indemnity obligations, or breach of express or implied warranties by or termination of the party whose liability is released, waived or limited. ~~If no such insurance coverage is provided with respect to Owner's Claims, then the total liability, in the aggregate, of Engineer and Engineer's officers, directors, members, partners, agents, employees, and Consultants to Owner and anyone claiming by, through, or under Owner for any and all such uninsured Owner's Claims shall not exceed~~ \$ _____

- B. *Indemnification by Owner:* To the fullest extent permitted by law, Owner shall indemnify and hold harmless Engineer and its officers, directors, members, partners, agents, employees, and Consultants from and against any and all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals, and all court, arbitration, or other dispute resolution costs) arising out of or relating to the Project, provided that any such claim, cost, loss, or damage 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, but only to the extent caused by any negligent act or omission of Owner or Owner's officers, directors, members, partners, agents, employees,

consultants, or others retained by or under contract to the Owner with respect to this Agreement or to the Project.

City of South Bend**Smart Sewer Upgrade Evaluation****SCOPE OF WORK****July 13, 2026**

South Bend's Smart Sewer system is a nationally recognized, real-time control (RTC) enabled network that has transformed the City's combined sewer system into a dynamic, data-driven asset, reducing combined sewer overflows. Built on a foundation of distributed sensors, automated control valves, and advanced monitoring, the system continuously optimizes flow across interceptors, storage, and treatment capacity during wet weather events. As the City looks ahead, targeted upgrades to this system are required to restore peak performance, integrate modern technologies, and further strengthen reliability, resiliency, and regulatory compliance. South Bend has continued to partner with HydroDigital and D3 Water LLC (D3) for system optimization and maintenance and now seeks to bring Arcadis into this effort to lead the engineering of these critical upgrades. This work will begin with Phase 1, a focused evaluation to define improvement needs and establish a clear, prioritized path forward, followed by Phase 2 design. Further details on the system are provided below.

Existing System. The system actively manages capacity across the City's approximately 600-mile combined sewer network through a robust monitoring and control framework supported by a centralized real-time decision support system (RT-DSS). At its core, the system consists of more than 100 distributed monitoring sites across the collection system, equipped with sensors that continuously measure depth, flow, velocity, and system conditions. While the existing monitoring network provides the backbone for real-time operations, no upgrades are anticipated to this portion of the system. Complementing the monitoring network are eight remaining remotely controlled regulator, gate, and valve sites distributed throughout key interceptors and diversion structures. These sites are CSO 003, 004, 014, 025, 026, 027, 028, and 044, of which the City has performed an initial evaluation. These control points actively manage flow across the network diverting wastewater from constrained trunks to underutilized conveyance and storage capacity. These existing control points along with several new control points proposed at new locations by the City and HydroDigital are the primary focus of this evaluation.

System Needs. Targeted upgrades to mechanical, electrical and instrumentation and control systems are required at the eight remotely controlled sites to restore full automation, improve operational reliability, replace equipment that has reached end of life cycle, and ensure compliance with current codes and standards. In addition, the City and HydroDigital are evaluating opportunities to expand the control network with several new RTC sites to further improve system flexibility and performance. Given funding constraints, improvements will be prioritized using a structured approach, with criteria including, at a minimum, system performance impact, operational reliability and safety considerations.

The following describes the initial scope of work to perform this Smart Sewer Upgrade project under Phase 1.

TASK 1 – PROJECT MANAGEMENT / MEETINGS

Project management best practices will be applied internally to ensure the project is completed successfully and within the defined budget and timeline. Arcadis will:

- Maintain a project SharePoint site for document transfer, storage, and transmittal of deliverables.

- Provide regular project status updates to the South Bend project manager.
- Manage project execution including resources, quality control practices, budget and schedule monitoring.
- Facilitate a kickoff meeting to review project intent, scope, schedule, contact and communications and a discussion of the key elements and concepts for the project.
- Prior to the kickoff meeting, submit a data request. This data will be reviewed during the kickoff meeting to build consensus regarding the meaning of pertinent data as well as its completeness and accuracy.
- Hold monthly progress meetings via a Teams virtual meeting in coordination with a presentation developed to communicate and coordinate with the City on ongoing task efforts.
- Coordinate with other City contractors including HydroDigital and D3.
- Send monthly invoices.

Deliverables:

- Project Invoicing
- Data and Document Inventory (tracking reviewed materials and identifying gaps)
- Meeting Minutes

TASK 2 – CURRENT SYSTEM UNDERSTANDING

To establish a clear and validated understanding of the current Smart Sewer control system, Arcadis will conduct a focused review of existing documentation, system configuration, and operational performance. This effort will build on the City's prior assessments and institutional knowledge, incorporating input from HydroDigital and D3 to confirm how the system is intended to operate versus how it is currently performing. The outcome will be a baseline of system functionality, gaps, and improvement needs to inform subsequent evaluation and design.

- Review City's initial assessment of system inventory and identified needs.
- Review prior studies and record drawings including those previously completed by Malcolm Pirnie (Arcadis).
- Perform a high-level review of the existing Supervisory Control and Data Acquisition (SCADA) system, including field instrumentation and control equipment, control system hardware and software, network architecture, collection system model control strategy, and SOPs to confirm operational understanding.
- Perform a high-level review of the existing electrical systems, including power distribution, service availability, control panel power supply, and standby power systems to confirm overall system configuration, reliability, and operational understanding.
- Evaluate operational performance data and compare intended vs. actual system performance.
- Following the above activities and also Task 3, summarize findings and validate system understanding through a coordinated meeting with the City, HydroDigital and D3 and document in a report section.

Deliverables:

- Meeting Minutes
- Typical RTC Site Control System Connection Diagram showing integration between sensors, RT-DSS, SCADA, and control sites
- Operational Assessment Summary (intended vs. actual performance, key inefficiencies or constraints)
- Existing Conditions Report Section (summarizing system configuration, key findings and gaps)

TASK 3 – FIELD CONDITION ASSESSMENT

Arcadis will conduct a field condition assessment of the Smart Sewer control sites to validate existing asset condition, identify deficiencies, and establish a reliable basis for rehabilitation and upgrade planning. This effort will combine structured field data collection with asset management best practices used during the prior development of the City's Asset Management Plan. The assessment will be performed in close coordination with the City, HydroDigital, and D3 to confirm site access, operational context, and safety requirements.

- Develop plan for field condition assessment plan, including site-specific safety protocols and coordination with the City for special consideration of existing electrical systems safety issues identified by the City.
- Configure Fulcrum (electronic data collection application) to establish a standardized system of record.
- Conduct site visits to assess accessible control points and associated mechanical, electrical, telemetry, and instrumentation and control equipment. Coordinate with the City and/or D3 to accompany Arcadis to the sites for access and operational support. Arcadis to provide two mechanical, one electrical and one I/C engineer.
- Summarize results and review findings with the City, HydroDigital and D3 in a coordination meeting.

Deliverables:

- Completed Fulcrum Database (system of record for assessed assets)

TASK 4 – EXISTING SYSTEM EVALUATION

Arcadis will perform an evaluation of the existing Smart Sewer system to define a clear, prioritized roadmap for system improvements. Building on the condition assessment, this effort will identify opportunities to enhance system performance, improve safety, improve operational simplicity, and ensure long-term reliability. The evaluation will integrate physical asset condition with control strategy, SCADA integration, and emerging technologies to develop actionable, cost-informed recommendations aligned with the City's operational and funding priorities.

- Assess control system functionality and identify monitoring technology improvement opportunities.
- Define system improvements based on condition assessment, performance, and available technologies.
- Evaluate SCADA and/or integration needs to maximize performance, enhance data and simplify operations.
- Evaluate electrical system capacity, reliability, and integration considerations to support existing and proposed operations, including potential power distribution constraints and upgrade needs.
- Review and evaluate electrical safety compliance with NFPA 70E (Standard for Electrical Safety in the Workplace).
- Prioritize recommended improvements based on factors such as safety, remaining useful life, equipment obsolescence and performance impact to be consolidated with the new sites in Task 6.
- Develop planning level opinions of probable construction costs for recommended improvements.
- Summarize results and review findings with the City, HydroDigital and D3 in a coordination meeting.

Deliverables:

- Meeting Minutes
- Existing System Evaluation Report Section (including control system enhancement strategy, asset replacement plan, benefit and risk reduction, and preliminary opinion of probable construction costs)

TASK 5 – PROPOSED EXPANSION EVALUATION

Arcadis will evaluate proposed Smart Sewer expansion opportunities identified by HydroDigital. This task will build on the City's existing RTC framework by assessing how additional control sites could enhance performance, increase operational flexibility, and further reduce overflow risk. Through coordination with HydroDigital and field-based observations, Arcadis will develop conceptual-level recommendations and planning-level cost estimates. HydroDigital has identified up to three potential projects that compliment the existing real time control system.

- Coordinate with HydroDigital to define project requirements for each proposed project/site.
- Obtain and review record drawings, GIS data, and available information on existing sewer and infrastructure.
- Conduct field visits to each proposed site (in coordination with Task 3) to document existing conditions, site constraints, access considerations, and constructability including photographs and observations.
- Perform feasibility assessments and develop conceptual level design approaches for each site.
- Evaluate mechanical, electrical, and instrumentation and control considerations to support integration of proposed RTC sites with the existing system.
- Prepare planning-level opinions of construction costs for recommended improvements.
- Summarize results and review findings with the City, HydroDigital and D3 in a coordination meeting.

Deliverables:

- Meeting Minutes
- Proposed Expansion Evaluation Report Section (including conceptual site layouts, key assumptions and constraints, and planning-level opinion of probable construction costs)

TASK 6 – PRIORITIZED PLAN AND REPORT

Arcadis will develop a report that synthesizes the results of the above tasks into a single, decision-focused document. This memorandum will integrate findings from the existing system evaluation and proposed expansion evaluation to establish a unified, prioritized roadmap for Smart Sewer improvements. The memorandum will define recommended improvements, identify priorities, and establish an implementation strategy aligned with system performance goals, operational reliability, safety, and available funding.

- Compile findings from above tasks. Compare and evaluate recommended existingsite improvements and proposed new RTC sites using a consistent prioritization framework.
- Develop prioritization criteria considering system performance impact, safety, operational reliability, equipment condition, obsolescence, constructability, and cost.
- Prepare a unified, prioritized list of recommended improvements and expansion projects.
- Consolidate planning-level opinions of probable construction cost for all recommended projects.
- Establish a phased implementation strategy to align improvements with operational constraints, system needs, and available funding. The criteria will be used to prioritize and phase for short and long-term needs.
- Document key assumptions, constraints, and risks affecting implementation.
- Submit a draft report for review and incorporate feedback into a final memorandum.
- Review recommendations with the City, HydroDigital and D3 in a coordination meeting.

Deliverables:

- Meeting Minutes
- Smart Sewer Upgrades Evaluation Report (Draft and Final)

ASSUMPTIONS

This scope is based on the following assumptions. Any change in these assumptions may result in a change to the project scope and engineering fee.

1. All data provided by the City, HydroDigital, and D3 (including SCADA, GIS, and operational data) is assumed to be accurate, complete, and representative of current system conditions.
2. Arcadis will not be responsible for validating or correcting underlying system models, SCADA configurations, or historical data beyond a high-level review for reasonableness.
3. Access to all required facilities, sites, and infrastructure will be provided by the City and/or D3, including coordination of entry, confined space access, and any required permits.
4. Field assessments will be limited to accessible and safely observable conditions; no destructive testing, bypass pumping, or intrusive investigations are included in this scope.
5. Instrumentation and control work will be limited to system-level evaluation and visual condition assessment of instrumentation, control panels, communications, and SCADA integration. Detailed control logic review, PLC programming, instrument calibration, system troubleshooting, or advanced data analytics beyond high-level identification are not included.
6. Electrical work will be limited to visual inspection and condition assessment; detailed arc flash studies, load studies, or code compliance upgrades beyond high-level identification are not included.
7. No survey, geotechnical investigation, or subsurface utility engineering (SUE) is included; existing record drawings and GIS data will be used to inform evaluations.
8. Opinions of probable construction cost (OPCC) will be planning-level and based on available information at the time of evaluation; costs may change as design advances.
9. The number of sites evaluated (existing and proposed) is limited to those identified in this scope; evaluation of additional sites may require a scope and fee amendment.
10. Coordination will be limited to planned project meetings and workshops; additional meetings or extended coordination efforts may require additional scope.
11. Timely review and feedback from the City and its partners is assumed to maintain project schedule.
12. HydroDigital will develop and provide standard operating procedures (SOPs); Arcadis will review for understanding but assumes no responsibility for development or implementation of SOPs.

SCHEDULE

It is proposed that Arcadis complete the study phase within six months from notice to proceed. This assumes requested information is provided timely and City staff have meeting availability.

FUTURE PHASE 2: DESIGN, BID AND CONSTRUCTION PHASE SERVICES

Arcadis could support design, bid and/or construction phase services to implement the recommendations in the Smart Sewer Upgrade Evaluation as part of Phase 2, in coordination with the City, HydroDigital, and D3. The scope and budget for these services can be provided upon completion of Phase 1.

BUDGET

Arcadis proposes to perform this scope of work on a time and materials basis for a not-to-exceed budget as shown in the following table. HydroDigital, D3 or others will be subcontracted separately with the City.

Task	Labor	ODCs	Not-To-Exceed Amount
Task 1 – Project Management / Meetings	\$21,500		\$21,500
Task 2 – Current System Understanding	\$11,100		\$11,100
Task 3 – Field Condition Assessment	\$34,150	\$2,650	\$36,800
Task 4 – Existing System Evaluation	\$28,150		\$28,150
Task 5 – Proposed Expansion Evaluation	\$31,250		\$31,250
Task 6 – Prioritized Plan and Report	\$28,700		\$28,700
Total	\$154,850	\$2,650	\$157,500

This proposal and its contents shall not be duplicated, used or disclosed — in whole or in part — for any purpose other than to evaluate the proposal. This proposal is not intended to be binding or form the terms of a contract. The scope and price of this proposal will be superseded by the contract. If this proposal is accepted and a contract is awarded to Arcadis as a result of — or in connection with — the submission of this proposal, Arcadis and/or the client shall have the right to make appropriate revisions of its terms, including scope and price, for purposes of the contract. Further, client shall have the right to duplicate, use or disclose the data contained in this proposal only to the extent provided in the resulting contract.

**BOARD OF PUBLIC WORKS
AGENDA ITEM REVIEW REQUEST FORM**

Date: 7/22/2026
Name: Kieran Fahey Department of Public Works – Engineering Division
BPW Date: 8/11/2026 Phone Extension: 5993

Required Prior to Submittal to Board

BPW Attorney ☒ Attorney Name _____
Dept. Attorney ☐ Attorney Name Michael Schmidt
Purchasing ☐ _____

Check the Appropriate Item Type – Required for All Submissions

☒ Professional Services Agreement	☐ Contract	☐ Proposal
☐ Open Market Contract	☐ Amendment/Addendum	☐ Special Purchase, QPA
☐ Bid Opening	☐ Bid Award	☐ Req. to Advertise ☐ Title Sheet
☐ Quote Opening	☐ Quote Award	☐ Reject Bids/Quotes
☐ Proposal Opening	☐ C/O & PCA No. _____	☐ PCA
☐ Chg. Order, No. _____	☐ Traffic Control	☐ Resolution
☐ Other: _____		☐ Ease./Encroach

Required Information

Company or Vendor Name Arcadis
New Vendor ☐ Yes ☐ If Yes, Approved by Purchasing
☒ No
MBE/WBE Contractor ☐ MBE ☐ WBE Completed E-Verify Form Attached ☐ Yes ☐ No
Project Name Smart Sewer System upgrade
Project Number Not yet created
Funding Source Waste Water Other Contractual Service
Account No. 641-06-605-514-439001
Amount \$157,500
Terms of Contract Making necessary updates and upgrades to the City's smart sewer valves etc.

Special Contract Provisions

Purpose/Description

For Change Orders Only

Amount of	☐ Increase	\$
	☐ Decrease	(\$)
Previous Amount		\$
	Increase	%
Current Percent of Change:	Decrease	(%)
New Amount		\$
	Increase	%
Total Percent of Change:	Decrease	(%)
Time Extension Amount:		
New Completion Date:		