

Project Title: Hydraulic Review and Technical Memo – Archer LS

FOTH Project Number: 24M275.00

CLIENT Project Number:  
(If applicable)

This Addendum (in addition to and subject to the conditions contained in the Agreement for Services dated **October 24, 2024**), (hereinafter "Addendum"), is made and entered into **14th** day of **October, 2025** by and between **FOTH INFRASTRUCTURE & ENVIRONMENT, LLC**, (hereinafter "Consultant") and **City of Manitowoc**, (hereinafter "Client"), for the services described under the Scope of Services (the "Services").

CLIENT: City of Manitowoc

Address: 900 Quay Street, Manitowoc, WI 54220

Phone No: 920.686.6910

Email Address: Greg Minikel ([gminikel@manitowoc.org](mailto:gminikel@manitowoc.org))**Scope of Services:** Client hereby agrees to retain Consultant to perform the following additional Services:

Background: The pumps at the Archer Lift Station have recently shown signs of nearing the end of their useful life. The City is seeking guidance on replacement options, taking into account the anticipated increase in future flows at this station. The purpose of these services is to review the original lift station design data provided by the City, along with previously collected field data and photographs by Foth, to conduct a desktop hydraulic analysis of current and projected pumping conditions. A brief technical memorandum will summarize our findings and provide recommendations for replacement pumps at the station.

- **Technical Memo** – to include:
  - Summary of existing pumping equipment
  - Summary of existing hydraulic conditions (including minimum/maximum wet well operating levels and force main size/features)
  - Calculation of system curve (under minimum/maximum conditions)
  - Verification of existing pump capacities (1 pump, 2 pumps, 3 pumps) vs. calculated system curve
  - Evaluation/estimate of the July/Aug. peak flow event
  - Alternative analysis of different pump selection/replacement options, including vendor quotes
  - Discussion/evaluation on future Sewer Service Area (SSA) flows (assumed future flow rates provided by City)
    - Roncalli Schools & Allie Project
    - I-43 & Waldo Ave. Interchange Area
    - Other areas as identified by the City
  - **Recommendation/Executive Summary** on:
    - Recommended overall Lift Station Capacity (for the next 20+ years, based on City-provided future flows)
    - Recommended replacement pump brand(s), selection, size, and style
    - Number of recommended pumps to be included with replacement (3 vs. 4)
    - Force main sizing verification for the future flows
    - Operational/control recommendations (limited to wet well levels & pump speeds)

**Items to be provided by the City:**

- Record Drawings for:
  - Lift Station
  - Force Main
- Original DNR-approved facility plan for Archer Lift Station
- Exhibit showing future Sewer Service Area (SSA), including associated future flow rates, including I&I peaking factor the City would like used in the evaluation
- Historical SCADA trend data during the high flow/flooding event (if available)
- Existing level controls & VFD settings

**Efforts not included in this scope (but may be added by another Addendum if requested by the City):**

- x Site visit (we don't believe this is needed as the photos collected at our previous visit will cover our needs)
- x Electrical evaluation related to equipment condition or upsizing capacity if larger motors are needed
- x Review and assessment of lift station systems other than pumps, wet well, and force main
- x Calculation of future flows – all future design flows to be provided by the City
- x Impacts to the City's user charge system as a result of the recommendations

**Schedule:** Services shall be performed according to the following schedule:

Estimated completion time: approximately 3–6 weeks after receiving authorization, depending on the vendor's response time for pump quotes and the timing of receiving both historical and future design flow data from the City.

**Compensation:** In consideration of these Services, the Client agrees to pay Consultant compensation as follows:

☐ Lump-Sum in the amount of \$ .00

☐ Unit Cost/Time Charges (Standard Rates) with a total amount not-to-exceed \$ .00

☒ Unit Cost/Time Charges (Standard Current Year Hourly Rates – see Exhibit A). Additional estimated fee of +\$12,000 (to be added to the original Agreement's high range estimate amount)

☐ Other as stated here:

**Special Conditions (if any):**

**Entire Agreement:** This Addendum, along with other approved Addendums, together with and subject to the Agreement for Services referenced above, constitutes the entire understanding between the parties with respect to the subject matter hereof. This Addendum may be modified by subsequent written addenda mutually agreeable by both parties.

IN WITNESS WHEREOF, this Agreement is accepted on the date last written below, subject to the terms and conditions above stated and the provisions set forth herein.

**CLIENT**

**FOTH INFRASTRUCTURE & ENVIRONMENT, LLC**

Signed: \_\_\_\_\_

Name (printed): \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Signed: \_\_\_\_\_

Name (printed):

Thomas J. Ludwig, P.E.

Title:

State Operations Director

Date:

10/14/25

Signed: \_\_\_\_\_

Name (printed):

Dale R. Broeckert, PE

Title:

Client Team Leader/Project Manager

Date:

10/14/25

## **Exhibit A**

### **FOTH INFRASTRUCTURE AND ENVIRONMENT, LLC 2025 HOURLY RATE SCHEDULE**

| <b><u>CLASSIFICATION</u></b> | <b><u>HOURLY RATE</u></b> |
|------------------------------|---------------------------|
| Engineer                     | \$123 - \$238             |
| Technician                   | \$92 - \$225              |
| Scientist                    | \$123 - \$238             |
| Land Surveyor                | \$153 - \$225             |
| Planner                      | \$123 - \$230             |
| Construction Manager         | \$153 - \$225             |
| Project Administration       | \$65 - \$125              |

#### **REIMBURSABLE EXPENSES**

1. All equipment, field service vehicles, materials and supplies used in the performance of work on this project will be billed at cost.
2. Auto mileage will be reimbursed per the Internal Revenue Service standard mileage reimbursement rate.
3. Charges for outside services such as soils and materials testing, fiscal, legal and all other direct expenses will be invoiced at cost plus 10%.

#### **ADJUSTMENTS TO FEE SCHEDULE**

1. Fee schedule effective January 1, 2025. Rates subject to change annually on January 1.