

Task Order No. 26-01
Village of Romeoville, Illinois (OWNER)
and Strand Associates, Inc.® (ENGINEER)
Pursuant to Agreement for Technical Services dated March 20, 2024

Project Information

Services Name: 2026 Water System Model Calibration and Update

Scope of Services

ENGINEER will provide the following services to OWNER.

Data Collection and Water Model Creation

1. Conduct an initial virtual project kick off meeting with OWNER to gather data and review scope and schedule.
2. Create a WaterGEMS water system model (water model) consisting of pipes, valves, and hydrants using OWNER-provided geographic information system (GIS) shapefiles. ENGINEER will not verify OWNER's data nor collect any data for the water model.
3. Input pump and storage facility data into the water model using OWNER-provided records and previous model data.
4. Allocate demands in model using OWNER-provided 2025 metered sales information separated by meter physical address.
5. Incorporate OWNER-provided supervisory control and data acquisition (SCADA) control set points into the water model.

Steady State Water Model Calibration

1. Prepare a draft field hydrant flow testing figure and submit to OWNER for review. Finalize locations of field hydrant flow testing based on OWNER-provided comments.
2. Collect flow and pressure readings during OWNER-conducted fire flow testing for up to 20 locations using ENGINEER's flow monitoring equipment. OWNER shall operate all hydrants, valves, and equipment to conduct the fire flow testing. OWNER shall also establish any necessary traffic control to conduct the fire flow testing.
3. Perform a steady state calibration of the water model using field fire flow testing results and OWNER-provided SCADA system information, including booster and well pump flows and storage facility water levels during testing.
4. Review the existing water system performance using the steady state calibrated water model for current average and maximum day demands. Generate pressure and maximum day demand available fire flow figures.

Village of Romeoville, Illinois
 Task Order No. 26-01
 Page 2
 June 16, 2026

5. Review potential system deficiencies based on average day demands (ADD), maximum day demands (MDD), and MDD with available fire flow modeling. The following 2025 steady state simulations will be modeled:

Steady State Simulations—Table 1	
Demand Scenario	Description
Pressures Under 2025 ADD	Existing System Hydraulic Analysis
Pressures Under 2025 MDD	
Fire Flows Under 2025 MDD	

6. Prepare draft letter summarizing the model, calibration, and current day water modeling analysis.
7. Attend a progress meeting in person with up to two people with OWNER to review the draft letter and gather comments.

Final Letter

1. Incorporate OWNER comments into the report, as appropriate, and compile a final letter with Executive Summary and Conclusions.
2. Finalize the letter and submit two hard copies and one electronic copy to OWNER.
3. Provide OWNER's current water system model files with 2025 water demands and current day scenarios on a portable media storage device.

Compensation

OWNER shall compensate ENGINEER for Services under this Task Order on an hourly rate basis plus expenses an estimated fee of \$38,000.

Schedule

Services will begin upon execution of this Task Order, which is anticipated the week of July 13, 2026. Services are scheduled for completion on February 26, 2027.

TASK ORDER AUTHORIZATION AND ACCEPTANCE:

ENGINEER:

OWNER:

STRAND ASSOCIATES, INC.®

VILLAGE OF ROMEOVILLE, ILLINOIS


 Joseph M. Bunker Date 6/16/26
 Corporate Secretary

Chris Drey Date
 Director of Public Works