

RESOLUTION 24-253

A RESOLUTION TO APPROVE CONTINUING SERVICE AGREEMENT FOR OHM, INC. PROFESSIONAL SERVICES AGREEMENT FOR INFLOW AND INFILTRATION REPAIRS

WHEREAS, the City of Spring Hill Board of Mayor and Aldermen approved the professional services agreement with OHM, Inc. to assist with developing a program for Inflow and Infiltration ("I&I") reduction repairs, manhole rehabilitation and maintenance with Resolution 19-92 and Amendment No. I with Resolution 20-30 and Amendment No. 02 Resolution 20-68 and Resolution 22-46; and

WHEREAS, OHM, Inc. has submitted a Continuing Service agreement to their existing contract that provided for metering plan assistance and support, flow analysis, program development and various support services in the implementation of the I&I reduction program; and

WHEREAS, all responsibilities and contractual obligations remain within the existing contract with the addition of attachment C – compensation and payment for Task 1-through 5 plus the H2O metrics software with the total project scope not to exceed cost of \$574,500.00; and

WHEREAS, the funding for this contact will be included in budget amendment no.1 I&I program funding of \$574,500.00 FY 2024-2025 and budgeted FY 2025-2026.

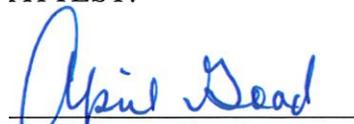
NOW, THEREFORE, BE IT RESOLVED, that the City of Spring Hill Board of Mayor and Aldermen:

1. Approve the continuing service agreement for OHM for I& I repairs, attached hereto
2. Authorize the mayor to sign the continuing services agreement

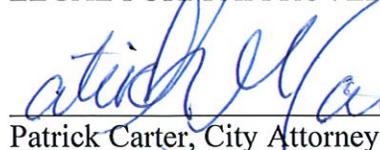
Passed and adopted by the Board of Mayor and Aldermen of the City of Spring Hill, Tennessee, on the 21st day of October, 2024.


Jim Hagaman, Mayor

ATTEST:


April Goad, City Recorder

LEGAL FORM APPROVED:


Patrick Carter, City Attorney



REQUEST: *Approval of Resolution 24-253*
SUBMITTED BY: Jessica Weaver, Utility Director
DATE: October 21, 2024
RE: To approve the contract extension with OHM for Inflow and Infiltration
ATTACHMENTS: Contract from OHM

PURPOSE:

The purpose of this memo is to request approval of continuing the contractual agreement between OHM and the City of Spring Hill, TN.

BACKGROUND:

The City entered into a contact with OHM to begin the process of developing an I&I reduction program for the sanitary sewer system with resolution 19-92 on June 17th 2019 with expanded services added through resolutions 20-30 and 20-68 and 22-46. Our current program is working with OHM providing the scope of work on an hourly basis per rates presented in the original proposal with a not to exceed amount of \$694,860 with a breakdown of tasks including:

1. Flow Meter Installation and Analysis
2. Sewer Inspection Guidance, Data Review and Rehabilitation Recommendations
3. Construction Administration
4. Field Services- SSES Inspection Assistance
5. GIS Development
6. AI CCTV Coding Software

FINANCIAL IMPACT:

This item will be funded from budget amendment no. 1 Inflow and Infiltration funds FY 24/25 of \$574,500.00 (410-52405-59121)

STAFF RECOMMENDATION:

Staff recommends approval of Resolution 24-253, to approve the contract with OHM for professional services assistance with the Inflow & Infiltration program.

Task Order No. 3
Sewer System Inflow and Infiltration Program
Dated _____
To
CONTINUING SERVICES AGREEMENT
Between
Orchard, Hiltz, & McCliment, Inc.
And
CITY of SPRING HILL
Dated June 20, 2019
For
PROFESSIONAL SERVICES

CLIENT: City of SPRING HILL

PROJECT: *SEWER SYSTEM INFLOW and INFILTRATION PROGRAM*

ATTACHMENT A - SCOPE OF SERVICES

At the request of the Client, this scope of services is presented as a continuation of the Sewer System Inflow & Infiltration (I&I) Program from July 2024 through June 2026. Typical sewer system rehabilitation efforts are accomplished in a 10-15 year time frame for most utilities. The time required to meet the goals of the City, I&I reduction in this case, is a function of project goals, resources, and funding. Since the inception of this program, OHM has helped craft a program which incorporates the City's staff into the various stages and workflows of the program.

The City's NPDES discharge permit, in addition to loadings limits, lists a maximum average daily discharge volume from the Wastewater Treatment Plant (WWTP) of 5 million gallons per day (mgd). WWTP monthly influent averages exceeded 5 mgd for 4 of the first 5 months of 2024 as a result of I&I. Based on current system demands, new homes permitted for construction, and continued growth, the ability of the WWTP to stay under this limit will not be possible with the continued presence of I&I. Based on this new information, the goal of the program is to eliminate I&I from the system in a sufficient volume to allow for growth and meet permit requirements. Program results will be proportional to funding levels.

Below are general descriptions of the various services currently being provided and or anticipated as a continuation of this I&I program.

Task 1 – Flow Meter Installation and Analysis

Task 1 continues flow meter analysis and flow meter prioritization support. Several of the City's flow meters have been installed at locations which will serve as permanent installations. Some of the areas being monitored are temporary and are anticipated to be moved several times as data indicates to evaluate I&I levels in additional sewer basins/subbasins. The City has purchased 11 flow meters, in an effort to expedite flow meter coverage of the sewer system. Two of the meters have been damaged. The City anticipates purchasing 4 more flow meters for a total of 13. OHM has installed and calibrated 9 meters and will install the additional 4 meters for the City once received. OHM will manage and maintain all 13 flow meters. Detailed I&I analysis for flow meter data will be conducted as before and data analyzed as available. Basins/sub-basins with higher I&I volumes/linear foot will be targeted MACP/LACP/PACP inspection efforts by City staff. Results from inspection data will then focus rehabilitation efforts on assets contributing to I&I. Breakdown of efforts are below:

1. Continue development of GIS map for new meter districts, acreages, and populations
2. Install 13 flow meters and perform regular maintenance.
3. H2Ometrics setup for new location data feeds (13 – anticipate relocation of some meters as needed)
4. H2Ometrics subscription for twenty-four (24) months (July 2024-June 2026) to be invoiced annually

5. Flow monitor data integrity checks to identify data stream dropout once auto reporting to H2Ometrics resumes
6. I&I Analysis in H2Ometrics (DWF metrics, wet weather I&I metrics, rainfall IDF metrics, RDII metrics, map results)
7. Continue development of recommendations for I&I program (ranking of districts, methods of investigation, Capital level budget items, schedule).
8. Amend Report with new flow monitor data as available

Task 2 – Sewer Inspections Guidance, Data Review, and Rehabilitation Recommendations

Task 2 continues efforts related to Sanitary Sewer Evaluation Survey (SSES) prioritization, manhole gravity main, and lateral SSES inspection data review, rehabilitation plans development, client meetings, as well as program management efforts.

Sewer manhole lining construction activities will continue. Additional construction contracts will be solicited once the work is identified and construction documents are developed.

TASK 3 – Construction Administration Services

OHM will continue to provide Construction Administrative services for each manhole rehabilitation contract. Services will include:

1. Conform Executed construction contracts
2. Review contractor submittals
3. Pre-construction meetings
4. Progress Meetings
5. Process Contractors Pay Estimates
6. Contractors Annual Services Contract Renewal
7. Coordination with Contractors and City Staff on construction activities

OHM will provide Bid Phase services for each anticipated rehabilitation contract.

1. Generate advertisement for bid for Client to publish locally
2. Post advertisement for bid on QuestCDN
3. Perform bid opening, evaluation, and award recommendation

Task 4 – Field Services - Support

OHM understands that a primary function of city staff will be conducting manhole (MH) inspections during wet weather events and within the resulting “saturated” conditions thereafter. Inspections shall be conducted utilizing the City’s current ArcGIS Online (AGOL) Manhole Inspection Field Map. Locations of MH inspections being conducted will be based on the flow monitoring findings and SSES prioritization. OHM is available to assist city staff at specific times when additional efforts may be warranted.

City staff will assume primary execution of CCTV inspections. CCTV gravity main inspection priority will be coordinated as needed with sewer department staff.

While the City searches to fill the position for an I&I crew leader, OHM can provide an interim I&I Crew Leader to coordinate City and OHM efforts for inspections. This crew leader will provide training for City staff, work with City staff supervisors on scheduling crews during rain events, and provide updates on work accomplished for use in reports.

Phase 5 – GIS Development

OHM will continue to work with City staff to develop a more established GIS based operating workflow. Efforts will focus on the following general efforts but not limited to:

1. Organize ArcGIS Online (AGOL) users and relevant data.
2. Migrate data into a geodatabase, assign asset Identification Numbers, correct, or direct Client staff on any major data integrity issues which need to be addressed.

3. Publish content to the Clients AGOL account.
4. Establish Field maps, inspection forms, dashboards as required for the department's needs.
5. Meet and collaborate with City staff on use of GIS based data collection.
6. Mentor City staff on all aspects of the process, data workflow, data collection, GPS training.
7. Identify data gaps or future GIS data integrity tasks to be performed in advance of any migration to an Enterprise based system.

ATTACHMENT B –PERIOD OF SERVICE

Task	Estimated Activity Period
Task 1 – Flow Meter Installation and Analysis	July 2024 – June 2026
Task 2 – Sewer Inspections Guidance, Data Review, and Rehabilitation Recommendations	July 2024 – June 2026
Task 3 – Bid Phase/Construction Administration	July 2024 – June 2026
Task 4 – Field Services - SSES Inspection Assistance	July 2024 – June 2026
Task 5 – GIS Development	July 2024 – June 2026

ATTACHMENT C - COMPENSATION AND PAYMENT

Fee

OHM ADVISORS proposes to provide the Scope of Work included in this Proposal on an hourly basis per rates presented herein, and shall not exceed \$574,500 based on the task breakdown:

Task	Estimated Compensation
Task 1 – Flow Meter Installation and Analysis	
• Meter Installation/Removal	\$60,000
• Meter maintenance	\$45,000
• Analysis/report	\$30,000
Task 1 Subtotal	\$135,000
Task 2 – Sewer Inspections Guidance, Data Review, and Rehabilitation Recommendations	\$175,000
Task 3 – Construction Administration	\$60,000
Task 4 – Field Services - Support	\$150,000
Task 5 – GIS Development	\$20,000
Expenses - H2OMetrics	\$30,000
Direct Reimbursables	\$4,500
TOTAL	\$ 574,500

Budgets between tasks will be reallocated if necessary based on the needs and changes in scope. Should deviations in the Scope of Work cause additional work tasks or Additional Services be required, an amendment to this Proposal Amendment will be necessary. The conditions established herein will be the basis of such amendment.

City of Spring Hill
CLIENT

Orchard, Hiltz, & McCliment, Inc.
CONSULTANT


Jim Hagaman
Mayor


Greg Sanford, P.E.
Principal

10/21/2024
Date

9/3/2024
Date

Attachments: Exhibit 1 – 2024 Hourly Rate Schedule
Exhibit 2 – Standard Terms and Conditions