



## CITY OF WASHINGTON, ILLINOIS

### City Council Agenda Communication

**Meeting Date:** October 17, 2022

**Prepared By:** Dennis Carr – City Engineer

**Agenda Item:** Phase 2B Archaeological Study for Strand's Recommended Alignment

**Explanation:** The following is a brief summary of the existing sanitary sewer trunkline and the steps taken:

- 1) The trunkline cannot convey all flow from STP1 to STP2 during wet weather.
- 2) When the trunkline gets surcharged during storm events, it overflows raw sewage into Farm Creek.
- 3) Strand was contracted to perform a Preliminary Engineering Study of Farm Creek due to their proven quality of work on the STP2 Facilities Plan and Phase 2A Project. They made the following three recommendations:
  - a. City needs to begin removing I&I
  - b. City needs a larger trunkline – Recommends south of Creek
  - c. City's existing influent pumping station will be under capacity.
- 4) Property owners south of railroad tracks protested.
- 5) Hamilton Engineers contracted to perform 3<sup>rd</sup> party review of alternatives. Draft report recommended one of the following:
  - a. City needs to remove I&I – By-pass sewer lines would increase trunkline capacity
  - b. City needs a larger trunkline – Recommends Strand's alignment
- 6) Robinson Engineering contracted to perform smoke testing in the high I&I areas east of STP1.
  - a. Could not identify enough I&I for By-Pass Option
- 7) City needs archaeological study to continue with Strand's recommended alignment that was also a recommendation from Hamilton's draft report.

The area to be studied is an 80'-wide corridor along the proposed Strand alignment. This corridor encompasses both the temporary and permanent easements identified for the project. The archaeological study is the last piece requested by the Army Corps and is necessary before moving forward. If the archaeological study comes back clean, the next step would be to finalize plans and perform land acquisition.

Strand has received two separate proposals to perform the archaeological study in accordance with current professional standards for archaeology and the Illinois State Historic Preservation Office's (SHPO) *Guidelines for Archaeological Reconnaissance Surveys and Reports (2019)*.

**Fiscal Impact:** Commonwealth Heritage Group has submitted a proposal for a price not to exceed \$10,898.95, which was the lower of the two proposals.

**Recommendation Summary:** Staff recommends moving forward with the archaeological study of the Strand recommended alignment to be performed by Commonwealth Heritage Group.

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This proposal contains pricing and other information confidential and proprietary to Commonwealth Heritage Group, LLC. Disclosure of this proposal's contents to persons or organizations outside Strand Associates, Inc. or the project proponent is not authorized without specific written permission of Commonwealth Heritage Group, LLC. All technical specifications and costs in this proposal are valid for 90 days.

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**Date:** October 10, 2022 W-2052

**To:** Ethan Druszkowski  
Strand Associates, Inc

**From:** Robert J. Watson, Ph.D.

**Subject:** Archaeological Survey and Reporting  
In Accordance with Section 106 of the National Historic Preservation Act  
Farm Creek Trunk Sewer Replacement Project  
City of Washington, Tazewell County, Illinois

Commonwealth Heritage Group, LLC. (Commonwealth) is pleased to provide Strand Associates, Inc (Strand) with a cost estimate for the above-referenced project. Based on the information provided by Strand, Commonwealth will conduct an archaeological literature review, reconnaissance level survey and reporting for the proposed Farm Creek Trunk Sewer Replacement Project in the City of Washington, Tazewell County, Illinois. It is our understanding that archaeological investigations of United States Army Corps of Engineers (USACE) jurisdictional lands are needed pursuant to Section 106 of the National Historic Preservation Act (NPHA) and its implementing regulations. Based on the mapping provided by Strand on July 20, 2021, Commonwealth assumes the project Area of Potential Effect (APE) will consist of an 80 foot (ft) (24.3 meter [m]) wide construction easement encompassing approximately 13.6 acres (ac) (5.5 hectares [ha]) of USACE jurisdictional lands.

For purposes of this project, Commonwealth assumes that architectural/history survey will not be required and that cultural resource investigations will be limited to archaeological survey. All work will be conducted in accordance with current professional standards for archaeology and the Illinois State Historic Preservation Office (SHPO) *Guidelines for Archaeological Reconnaissance Surveys and Reports* (2019)

Archaeological investigations and reporting will include the following:

### **Background**

Preparation for field investigations will entail:

- Commonwealth will compile background research for previously identified archaeological resources and surveys both within the APE and within a one-mile radius of the APE. Commonwealth holds a license to access the Illinois Inventory of Archaeological Sites (IIAS), the online database of Illinois archaeological sites and surveys maintained by the Illinois SHPO.
- Commonwealth will review the National Register of Historic Places and the state register of sites for previously identified historic properties.
- Commonwealth will also review historic maps and plats as appropriate to establish a sense of the historic settlement pattern and potential site locations within the project APE.

- Commonwealth will digitize the results of the background research to ensure data reflects the full extents of the sites relative to the APE and so that the GPS files contain this information during fieldwork.
- The Principal Investigator will compile background materials for review with field personnel in advance of the field survey.

### **Mobilization and Field Work**

- Commonwealth will deploy a two-person field crew to conduct the archaeological reconnaissance survey.
- Archaeological survey will be conducted within a project APE consisting of an 80 ft (24.3 m) wide construction easement on USACE jurisdictional lands.
- The entire project APE will be subjected to visual reconnaissance to assess previous disturbances and identify areas where other survey methods may be employed. Based on a preliminary review of aerial photography and the project mapping, it appears that the USACE jurisdictional areas within the APE are undeveloped and may require subsurface testing.
- Pedestrian survey will be completed in areas where surface visibility is greater than 25 percent, using 10-meter transect spacing, and 5-meter intervals within site areas.
- Where feasible, shovel testing will be conducted in areas with less than 25 percent surface visibility.
- Shovel tests will measure 40 x 40 centimeters and will be excavated on 15-meter intervals. Soil will be screened through 0.25-inch mesh.
- Bucket augers will be used to test areas of the project APE with the potential to harbor deeply buried cultural materials. A preliminary review of project area soils indicates that portions of the APE may require bucket auger testing.
- Artifact content and stratigraphy will be recorded for each shovel/auger test.
- Soils will be described by Munsell color designation and USDA-NRCS texture class.
- All positive shovel/auger tests and site boundaries will be plotted with sub-meter GPS.
- Site delineation will use shovel tests at 5-meter intervals.
- Site boundaries will not be pursued beyond the APE.

### **Laboratory Analysis**

- Commonwealth will analyze recovered artifacts and spatial data for all archaeological sites.
- Commonwealth will conduct additional background research associated with historic sites to provide historic background necessary to assess potential National Register of Historic Places (National Register) eligibility.
- Curation costs for any recovered artifacts are not included.

### **Reporting**

- Commonwealth will prepare an archaeological report that will meet Illinois SHPO and USACE requirements and will submit the completed report to Strand for review within 15 business days of fieldwork completion.
- Commonwealth will identify, to the extent possible, the cultural affiliation of each site and will identify any National Register-eligible resources within the APE and those that require additional research before National Register eligibility can be determined, including recommendations for additional testing with an explanation of specific testing methods.
- Commonwealth will offer Phase II/evaluation plans for any resources needing such effort.
- Commonwealth will create GIS layer of survey coverage and all resources identified during the pre-field research and survey.
- Commonwealth will prepare artifacts for curation or return to the landowner (if applicable).

### **ASSUMPTIONS**

- Archaeological investigations will be conducted for the project areas on USACE jurisdictional lands indicated as "Areas of Concern" on project mapping provided to Commonwealth on October 4, 2022.

- If it is determined that areas outside of the "Areas of Concern" depicted on the project mapping provided to Commonwealth require survey, a contract amendment to cover the cost of that survey will be required
- Commonwealth assumes that most of the project APE will require subsurface testing, either standard shovel testing or auger testing.
- No archaeological sites will be identified.
- No human remains anticipated.
- Illinois one-call service to be completed by Commonwealth.
- Workspace shape files to be provided to Commonwealth.
- Commonwealth to provide shape files documenting survey results.
- This request for a cost estimate does not include tribal consultation, and all agency and tribal consultation including follow-up calls and meetings, will not be the responsibility of Commonwealth.
- This request for a cost estimate does not include Phase II site testing/evaluation or Phase III data recovery work.
- A draft report will be submitted within 15 business days of completion of the field for review and comments by Strand.
- A final report will be submitted within five (5) business days of receipt of comments by Strand.

Commonwealth will commence pre-field research and project coordination within one working day of receipt of a Notice to Proceed. Field survey will be scheduled within 10 days of receipt of the Notice to Proceed and clearance one-call tickets.

Commonwealth will dedicate Dr. Robert Watson as Project Manager. Dr. Watson has 30 years' experience working in the upper Great Lakes region. His qualifications exceed the professional qualifications standards of the Secretary of the Interior's Standards and Guidelines for Archaeology and Historic Preservation.

The above services will be provided on a time and expenses basis for a price not to exceed **\$10,898.95**. A breakdown of costs is attached.

**Archaeological Survey and Reporting  
In Accordance with Section 106 of the National Historic Preservation Act  
Farm Creek Trunk Sewer Replacement Project  
City of Washington, Tazewell County, Illinois**

<b>Salary &amp; Wages</b>		Prefield	Field	Report	Total Hours	TOTAL
Watson, Robert (Project Manager)	\$123.96	2	0	2	4	\$495.84
Hulit, Elissa (GIS Coordinator)	\$ 88.14	2	0	4	6	\$528.84
Jones, Rhiannon (Principal Investigator)	\$ 77.19	0	0	0	33	\$2,547.27
Field Director	\$ 63.00	1	40	1	42	\$2,646.00
Harding, Megan (Logistics/Graphics)	\$ 62.40	0	0	0	40	\$2,496.00
<b>Subtotal</b>		<b>8</b>	<b>80</b>	<b>43</b>	<b>131</b>	<b>\$8,713.95</b>
<b><u>Non-Labor Direct Expenses</u></b>						
<b>Transportation</b>	Qty	Days				
Vehicle and fuel @ \$130/day	1	5				\$650.00
						<b>\$650.00</b>
<b>Meals and Lodging</b>	Crew	Days	Cost/Qty			
Lodging @ \$115.00/day	2	4	\$920.00			\$920.00
Per Diem @ \$55.00/day	2	4	\$440.00			\$440.00
						<b>\$1,360.00</b>
<b>Other Direct Costs</b>	Qty	Days	Cost			
GPS Units @ \$35/day	1	5	\$175.00			\$175.00
						<b>\$175.00</b>
<b>Non-Labor Direct Expenses Subtotal</b>						<b>\$2,185.00</b>
<b>Total Estimated Cost</b>						<b>\$10,898.95</b>