

CITY OF WILLIAMSPORT, PA RESOLUTION

RESOLUTION # 8861

DATE 3-14-19

TITLE

RESOLUTION TO APPROVE CHANGE ORDER #3 TO THE MASTER SERVICE AGREEMENT (MSA) BETWEEN THE CITY OF WILLIAMSPORT (CITY) AND WOOD ENVIRONMENTAL & INFRASTRUCTURE SOLUTIONS, INC. (WOOD)

WHEREAS, the City Administration requests approval from City Council for Change Order #3 to the MSA between the City and Wood in the amount of and not-to-exceed \$61,400.

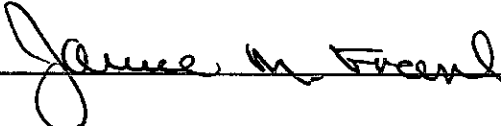
WHEREAS, the City is required to work within the SWIF Plan in order to remediate the deficiencies identified within the Periodic Inspection which was performed by the US Army Corp of Engineers (USACE).

WHEREAS, City Council approved Resolution #8719, dated 12/14/17 for the SWIF Plan to be completed by Wood.

WHEREAS, a Master Service Agreement between the City and Wood was approved by City Council under Resolution #8749, dated 3/1/18.

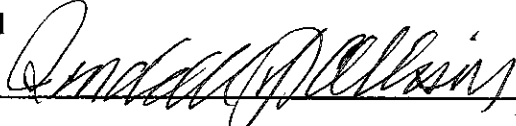
WHEREAS, Change Order #3 will allow Wood to complete the design and engineering work required to remediate the cross pipe deficiencies in the Northwest section of the Williamsport levee system, including the levee section which protects Reach Road.

BE IT HEREBY RESOLVED that City Council approves Change Order #3 to the Master Service Agreement between the City and Wood in the amount of and not-to-exceed \$61,400.



City Clerk

Approved



President

MEMORANDUM

TO: Mayor Gabriel J. Campana and Members of City Council

FROM: Mark J. Benner

RE: **RESOLUTION TO APPROVE CHANGE ORDER #3 TO THE MASTER SERVICE AGREEMENT BETWEEN THE CITY OF WILLIMSPORT AND WOOD ENVIRONMENTAL & INFRASTRUCTURE SOLUTIONS, INC. (WOOD)**

DATE: **March 14, 2019**

Attached for City Council's review is a resolution approving Change Order #3 to the Master Service Agreement between the City of Williamsport and Wood in the amount of and not to exceed \$61,400.00.

The City of Williamsport is required to work within the SWIF Plan in order to remediate those deficiencies identified within the Periodic Inspection which was performed by the U.S. Army Corp of Engineers (USACE). City Council approved Resolution #8719, dated 12/14/17 for the SWIF Plan to be completed by Wood.

A Master Service Agreement between the City of Williamsport and Wood was approved by City Council under Resolution #8749, dated 3/1/18. This change order allows Wood to complete the design/engineering work required to remediate the cross pipe deficiencies in the Northwest section of the levee system, including the levee section protecting Reach Road.

The City Solicitor has reviewed the proposal from Wood and is in agreement.

We are requesting City Council action on this resolution on Thursday, March 14, 2019.



February 28, 2019

Mr. Mark Benner

City of Williamsport
1550 West 3rd Street
Williamsport, PA 17701

Re: MSA Work Order No. 3 - Proposal for Act 13 Grant Support, City of Williamsport Levee System, Williamsport, Pennsylvania

Dear Mr. Benner:

As requested, Wood Environment & Infrastructure Solutions, Inc. (Wood) is pleased to submit this proposal for assisting the City of Williamsport (the City) in performing the required professional due diligence in support of an Act 13 grant application to remediate the City's Northwest Levee System cross pipes. This grant application is to assist the City with maintaining eligibility for United States Army Corps of Engineers (USACE) Public Law (P.L.) 84-99 assistance and acquiring Federal Emergency Management Agency (FEMA) accreditation through rehabilitating the City's levee-penetrating cross pipes identified as not meeting the USACE acceptance criteria and rated as Unacceptable.

PROPOSED SCOPE OF SERVICES

Task 1.0 Cross Pipe Rehabilitation, Construction Drawings, Specifications, and Total project costs, and Engineering Feasibility Study

Task 1.1 Cross Pipe Rehabilitation Drawings, Specifications, and project costs

Wood will provide professional services for the engineering and document preparation for the rehabilitation of the following seven (7) levee-penetrating culverts, assuming that DS-11 is two pipes in parallel:

- DS-1, Station 118+23 (24-inch CMP)
- DS-9, Station 1+86/2+29 (18-inch CMP)
- DS-11, Stations 8+56/8+58 (2x36-inch CMP(s))
- DS-14, Station 79+00 (12-inch CMP)
- DS-18, Station 106+29 (12-inch CMP)
- DS-20, Station 115+10 (18-inch CMP/RCP)



Construction documents to be prepared include project plans (signed and sealed by a licensed professional engineer, registered in the state of Pennsylvania), technical specifications, and a construction cost estimate prepared by a professional engineer.

The project plans drawings will include, but are not limited to:

- a cover sheet,
- index sheet,
- plan-view sheets, and a
- detail sheet.

The project plans will be prepared using Autodesk AutoCAD Civil 3D 2018, with all work products delivered in both electronic PDF format, and hard copies upon request. Wood will provide all AutoCAD “.dwg” files upon request.

The technical specifications will be prepared using SpecsInTact and the latest Unified Facilities Guide Specifications (UFGS) technical specification templates, modified as applicable for this project. UFGS technical specifications will be modified to adhere to the PennDOT 408 manual, ACI¹, ASTM², and AASHTO³ standards as appropriate. UFGS specifications are developed for the U.S. Army Corps of Engineers, among other Federal agencies. Technical specifications, by definition, do not include any front-end specifications or contractual language.

Wood will coordinate with The County of Lycoming and PennDOT as needed to support permitting efforts completed by others.

Task 1.2 Feasibility Study

In Task 1.2 Wood will prepare a Technical Memorandum that addresses the requirements specified in Items 1(a) through 1(j) below, and exhibits 5 and 6 from the Act 13 Flood Mitigation Grant Application Instructions.

1. An engineering feasibility study conducted by a registered professional engineer that includes the following information:
 - a. A detailed description of the problem area along with a flood inundation map outlining the extent of the flood area;
 - b. The number and name of the municipalities that will potentially benefit from the

¹ American Concrete Institute

² American Society for Testing and Materials

³ American Association of State Highway and Transportation Officials



- project;
- c. A detailed breakdown of the number of structures (homes, businesses, and industrial sites) that have experienced flood damage to include the number of times the structures have been flooded, the type and depth of flooding (basement or first floor), and the amount of damage sustained per flood event;
 - d. A detailed hydrologic analysis listing the recommended flood discharges for a series of annual events such as the 2-year, 5-year, 10-year, 25-year, 50-year, 100-year, 500-year; and a discussion on which hydrologic methods were considered and why the recommended discharges were selected;
 - e. An updated cross-sectional survey of the waterway and floodplain;
 - f. a simulated computer model using the U.S. Army Corps of Engineer's Hydrologic Engineering Center's River Analysis System (HEC-RAS) verifying the flood inundation limits for a 100-year flood discharge;
 - g. Information on the cost effectiveness, annual maintenance (ease of and cost), and constructability of the project;
 - h. Preliminary construction drawings showing the features of the recommended project;
 - i. A preliminary rights-of-way acquisition plan showing types and limits of easements needed to construct and maintain the project; and
 - j. An annotated sketch that shows how the project will impact (change) the flood plain limits shown on the current FEMA Flood Insurance Mapping.

ASSUMPTIONS

The proposed scope and the associated cost estimate is based on the stipulations mentioned above and the following assumptions:

1. We assume that the USACE's requirements for maintaining eligibility in their P.L. 84-99 program will be consistent with our recommendations for FEMA levee certification.
2. Costs do not include performing any supplemental field survey or in-field data collection.
3. No CAD data or survey-grade data is available.
4. Drawings will be based on publicly-available aerial imagery.
5. As-Built drawings depict accurate depth of cover over culverts.
6. The City or their designated party will provide the necessary funding commitment and the letter certifying that the proposed project is in compliance with the applicable comprehensive land use plans, as specified in the grant guidelines.
7. National Levee Database lists accurate upstream/downstream culvert invert elevations.
8. No additional interior drainage or rainfall modeling and/or engineering is necessary.
9. All industry-standard rehabilitation methods are acceptable.
10. Others are addressing land rights and temporary construction access.





11. Others are addressing permitting needs, Wood can provide this service for an additional scope and fee.
12. Cost associated with any permit fees are not included and will be covered by others.
13. Wood will reference the engineering studies previously prepared in support of the Northwest Williamsport levee certification in the preparation of the Feasibility Study Technical Memorandum.
14. Others are addressing the project's compliance with any comprehensive Land Use Plans.
15. The plans and specifications will require one (1) round of review by the City. A courtesy copy of the submittal will be provided to the USACE; however, Wood assumes that all review comments will be provided concurrently. The schedule presented herein has assumed comments will be provided within a 14-day period.
16. Video Inspection of the Northwest Williamsport System or support for independent video inspection by the City or their representative is not included in this scope of work, and can be provided for an additional scope and fee.
17. Meetings and presentations not specifically stated in the Scope of Work are not included. We can attend meetings and/or make presentations to the City, regulatory agencies and stakeholders, if requested, for an additional fee.
18. Pre-Construction and Construction phase services are not included in our proposed scope of services. Wood assumes that the City or a designated party will procure Construction Management oversight services for this project under a separate contract.

ESTIMATED FEE

Wood proposes to provide the above services in accordance with the previously agreed upon Terms and Conditions as outlined in the Master Services Agreement, established between Wood and the City, on a lump sum basis for \$61,400. If additional work is required, Wood will obtain authorization prior to performing such work. A detailed cost breakdown is provided in the table below:

Task	Proposed Hours	Proposed Cost
Task 1.0 - Cross Pipe Rehabilitation, Construction Drawings, Specifications, and Total project costs, and Engineering Feasibility Study	522	\$61,400

SCHEDULE

Wood will begin work upon receiving written authorization from the City. Assuming Wood receives Notice To Proceed (NTP) prior March 18, 2019, Wood anticipates that Task 1.0 will be completed by May 5, 2019. We can provide Plans to the City for review at that time, and USACE thereafter.

