

**CERTIFICATION OF PUBLICATION  
CITY OF BALTIMORE  
OFFICE OF BOARDS AND COMMISSIONS  
PUBLIC NOTICE**

**REQUEST FOR PROPOSAL - PROJECT NO. 1319  
PHASE 2 - STORMWATER HYDRAULIC MODEL DEVELOPMENT**

The City of Baltimore Office of Boards and Commissions has been requested by the Department of Public Works, Office of Engineering and Construction, to advertise for the services of three Civil Engineering firms to provide engineering services to develop a City-wide Hydraulic and Hydrologic (H & H) and stormwater quality model for the City of Baltimore (The City) stormwater drainage system. This project will expand on an existing model already completed on 3 sub-watersheds.

The City intends to apply this fully integrate stormwater model to: characterize the performance of the public storm sewer system under multiple rainfall scenarios; simulate various types of potential flood events to determine source, risk, and applicable corrective measures; evaluate the impacts of various stormwater management practices (structural, non-structural, and alternative), proposed development, and potential land use/land cover changes; assess the feasibility, effectiveness and potential impacts (trade-offs) of the City's ability to meet the waste load allocations (WLAs) for regulated stormwater for the Chesapeake Bay TMDL and other local TMDLs; identify and analyze options for replacing/ repairing storm sewers to support the asset management program; study the impact of street trees (leaf drop) and human behavior (litter / illegal dumping) on collection capacity; develop stormwater capital improvement program (CIP) projects and operations enhancements to mitigate flooding and improve the health of City's waterways; and evaluate resiliency and sustainability of the existing and proposed public stormwater assets with respect to conditions identified in the City's Disaster Preparedness and Planning Project (DP3).

The total area of the City's watershed remaining to be modeled is on the order of 68 square miles. Projects will be assigned on a sub-watershed basis. Each firm will follow DPW's model development standards which includes guidelines, nomenclature, and protocols for data collection, model build, and data input to and from modeling and mapping tools.

The firms interested in providing these services must demonstrate and document:

1. Experience and expertise in applying a dynamic stormwater modeling software and methodologies that are applicable to urban drainage to meet project objectives.
2. Experience in gathering and reviewing various information sources and data sets needed for building stormwater quantity and quality model.
3. Experience in identifying data gaps and anomalies in the data sets and develop an optimized and cost-effective implementation plan to correct data issues.
4. Experience in using modeling handbook / standards developed by others to expand an existing model.
5. Experience in building integrated and dynamic model of the hydrologic and hydraulic components of stormwater drainage system, including but not limited to:
  - Flow survey, boundary conditions, base flow components,
  - Radar rainfall, historical rainfall, and rain gage data components,
  - Rainfall-to-runoff component,
  - One-dimensional (1D) sewer pipe flow component, and
  - Two-dimensional (2D) digital terrain model (DTM) and overland flow components.

6. Expertise in stormwater model calibration and verification to industry standards.
7. Experience in building stormwater quality model that represents pollutant accumulation (build-up) and washoff mechanisms on subcatchments including temporal and spatial variations.
8. Expertise in stormwater drainage system characterization and analyze deficiencies based on discrete synthetic storms and multi-year continuous simulations model runs. Analysis to include but not limited to:
  - Hydraulic performance during the 2D overland flow and the 1D sewer pipe drainage systems,
  - Interactions of the above-ground and the below-ground drainage systems,
  - Hydraulic limitations in drainage pipes, inlets, culverts, as well as overland flooding areas, and
  - Sensitivity and resiliency analyses of the impact of higher flood frequency events, storm surge or sea level rise.
9. Experience in developing comprehensive reports documenting:
  - Data collection and gap analysis,
  - The stormwater model development, calibration, and verifications, and
  - Findings from system characterization and project recommendations.
10. Expertise and capacity to provide storm drain inspection services to:
  - Perform field surveys of the stormwater sewer system utilizing electronic and multi-sensor technologies including, but not limited to, visual, CCTV, sonar, and laser,
  - Develop maintenance and rehabilitation plans.
11. Ability to provide appropriate skilled personnel and resources to ensure effective performance and delivery.
12. Experience in the coordination of a multi-disciplined team including Minority and Women Business Enterprises and demonstrated manpower availability to complete the project on schedule and within budget.
13. Experience in developing knowledge management processes, City staff training and project data repository and visualization practices including Dashboard and GIS platforms.

The City intends to select the services of three (3) firms for a period of two (2) years, with an option to extend for one (1) year additional term at City's discretion, for a fee not to exceed \$4,000,000.00 for each selected firm.

The Office of Engineering and Construction reserves the right to have a second interview with eligible consulting firms.

DPW encourages all contracting firms that have the experience and capacity to work on this scope to submit their proposals. All firms must demonstrate and document their capacity and resources to deliver the required services on time.

Projects must comply with the 2006 edition of "The Specifications for Materials, Highways, Bridges, Utilities and Incidental Structures". City personnel will utilize the City of Baltimore Guidelines for the Performance Evaluation of Design Consultants and Construction Contractors for this contract/project.

Should you have any questions regarding the scope of the project, please contact **Mr. Jemil Yesuf** at **(410) 545-1809** or by e-mail at [Jemil.yesuf@baltimorecity.gov](mailto:Jemil.yesuf@baltimorecity.gov).

### **Prequalification Requirement**

All firms listed in the specific proposal for the Project must be prequalified by the Office of Boards and Commissions for each applicable discipline at time of submittal for this Project. Any construction contractor listed in the specific proposal for the Project to perform work in an existing prequalification category must also be prequalified. *A copy of the prime and sub consultant's current Prequalification Certificate should be included in the bid submittal package.* Information regarding the prequalification process can be obtained by calling the Office of Boards and Commissions on 410.396.6883.

### **Submittal Process**

Each Firm responding to this Request for Proposal (RFP) Project #1319 is required to complete and submit **an original** Standard Federal Form (SF) 255 / 330 unless otherwise specified in this RFP. Provide one **(1) original** submittal, along with **five (5) additional** copies to the Office of Boards and Commissions at **4 South Frederick Street, Baltimore, Maryland 21202** on or prior to the due date by **NOON Friday October 4, 2024**. Submittals cannot be emailed and will not be accepted after due date NOON.

The Federal Standard Form (SF) 255 **cannot** be supplemented with additional pages, or additional information such as graphs, photographs, organization chart, etc. All such information should be incorporated into the appropriate pages. Applications should not be bound; simply stapled in the upper left-hand corner. Cover sheets should not be included. Inclusion and/or submittal of additional material may result in the applicant being disqualified from consideration for this project.

Firms interested in submitting a proposal for this Project, shall address a "Letter of Interest" to the Office of Boards and Commissions, or you may email: [OBC.consultants@baltimorecity.gov](mailto:OBC.consultants@baltimorecity.gov). Letters of Interest will be utilized to assist small minority and women business enterprises in identifying potential teaming partners and should be submitted within five (5) days of the date of the project's advertisement. The Letter of Interest must provide the name and number of your firms contact person. Failure to submit a "Letter of Interest" will not disqualify a firm submitting a proposal for the project.

Only individual firms (including, for example, individuals, sole proprietorships, corporations, limited liability companies, limited liability partnerships, and general partnerships) or formal Joint Venture (**JV**) may apply. Two firms may not apply jointly unless they have formed a joint venture.

### **MBE/WBE Requirements – Mayor's Office**

It is the policy of the City of Baltimore Mayor's Office of Small and Minority Business Advocacy & Development (SMBA&D) to promote equal business opportunity in the City's contracting process. Pursuant to Article 5, Subtitle 28 of Baltimore City Code (2000 Edition) – Minority and Women's Business Program, Minority Business Enterprise (MBE) and Women's Business Enterprise (WBE) participation goals apply to this contract.

The MBE goal is **30%**

The WBE goal is **15%**

Both the proposed Minority and Women's Business Enterprise firms must be named and identified as an MBE or WBE within Item 6 of the Standard Form (SF) 255 in the spaces provided for identifying outside key consultants/associates anticipated for utilization for this project.

Any submittals that do not include the proper MBE/WBE (in some instances DBE) participation will be disapproved for further consideration for this project.

### **Verifying Certification**

Each firm submitting a SF 255 for consideration for a project is responsible for verifying that all MBEs and WBEs to be utilized on the project are certified by the Minority and Women's Business Opportunity Office (MWBOO) prior to submitting the proposal. A directory of certified MBEs and WBEs is available from MWBOO. Since changes to the directory occur daily, firms submitting SF 255s should call MWBOO at (410) 396-4355 to verify certification, expiration dates and services that the MBE or WBE is certified to provide.

### **Non-Affiliation**

A firm submitting a proposal may not use an MBE or WBE to meet a contract goal if:

- The firm has a financial interest in the MBE or WBE
- The firm has an interest in the ownership or control of the MBE or WBE
- The firm is significantly involved in the operation of the MBE or WBE (Article 5, Subtitle 28-41).

### **Insurance Requirements**

The consultant selected for the award of this project shall provide professional liability, auto liability, and general liability and workers' compensation insurances as required by the City of Baltimore.

### **Local Hiring Law**

Article 5, Subtitle 27 of the Baltimore City Code, as amended (the "Local Hiring Law") and its rules and regulations apply to contracts and agreements executed by the City on or after the Local Hiring Law's effective date of December 23, 2013, which is applicable to all vendors. The Local Hiring Law applies to every contract for more than \$300,000 made by the City, or on its behalf, with any person. It also applies to every agreement authorizing assistance valued at more than \$5,000,000 to a City-subsidized project. Please visit [www.oedworks.com](http://www.oedworks.com) for details on the requirements of the law.

### **Additional Information**

A firm submitting as a prime consultant that fails to comply with the requirements of Article 5, Subtitle 28 of Baltimore City Code when executing a contract is subject to the following penalties: suspension of a contract; withholding of funds; nullification of contract based on material breach; disqualification as a consultant from eligibility to provide services to the City for a period not to exceed 2 years; and payment for damages incurred by the City.

A resume for each person listed as key personnel and/or specialist, including those from MBE and WBE must be shown on the page provided within the application.

Please be advised that for the purpose of reviewing price proposals and invoices, the City of Baltimore defines a principal of a firm as follows:

*A principal is any individual owning 5% or more of the outstanding stock of an entity, a partner of a partnership, a 5% or more shareholder of a sub-chapter 'S' Corporation, or an individual owner.*

Out-of-State Corporations must identify their corporate resident agent within the application.

Firms will not be considered for a specific project if they apply as both a sub-consultant and prime consultant.

The applications for this Project (Form 255) cannot be supplemented with any additional information such as graphs, photographs, organization chart, etc. All such information should be incorporated into the appropriate pages. Applications should not be bound. Applications should imply be stapled in the upper

left-hand corner. Cover sheets should not be included. Inclusion and/or submittal of additional material may result in the applicant being disqualified from consideration for this project.

Failure to follow directions of this advertisement or the application will cause disqualification of the submittal.

Deena Joyce, Executive Secretary  
Office of Boards and Commissions

**Issue of: 8-16-2024**

The Afro-American

The Baltimore Sun

The Baltimore Times

The Daily Record

eMaryland Marketplace