

CITY OF NORMAN, OK STAFF REPORT

MEETING DATE: 9/13/2022

REQUESTER: Jason Murphy, Stormwater Program Manager

PRESENTER: Shawn O'Leary, Director of Public Works

TITLE:CONSIDERATIONOFAPPROVAL,ACCEPTANCE,REJECTION,AMENDMENT, AND/OR POSTPONEMENT OF CONTRACT K-2223-19:ACONTRACT BY AND BETWEEN THE CITY OF NORMAN, OKLAHOMA,AND MESHEK AND ASSOCIATES, L.L.C. IN THE AMOUNT OF \$100,000FOR THE FLOOD WARNING SYSTEM SCOPING PROJECT.

BACKGROUND:

The City of Norman experiences flood events on a regular basis, which lead to road closures. The current process to identify and barricade flooded roadways is a manual process which can take a significant amount of time and puts both the emergency responders and traveling public at risk. In November of 2020, with approval from the City Manager, the City applied for a FEMA Building Resilient Infrastructure and Communities (BRIC) grant through the Oklahoma Department of Emergency Management and Homeland Security (ODEMHS). These grants are designed for pre-disaster mitigation and are competitively awarded. In February 2022, ODEMHS notified the City of Norman of the approval to award funds for the FEMA BRIC Grant for the City of Norman Flood Warning System Development Project.

DISCUSSION:

On March 8, 2022 City Council approved the acceptance of the FEMA BRIC Grant for the Norman Flood Warning System Development Project. Federal funding for this project is a \$75,000 (75%) reimbursement with a local match requirement of \$25,000 (25%) as part of the FEMA BRIC Grant program. Acceptance of this grant is to design the framework for a flood warning system for the City modeled after the Charlotte-Mecklenburg Flood Information & Notification System. Working with personnel from Public Works, Police, Fire, and IT, information on current processes and future needs will be gathered. Subwatersheds citywide will be analyzed to determine the best locations for installation of up to 25 stream and rain gages and cameras as well as the feasibility of incorporating ten existing monitoring locations used for Lake Thunderbird Total Maximum Daily Load (TMDL) compliance.

Once locations are identified through this scoping project, stream gauges, rain gauges, and cameras will be installed pending availability of funding through either future appropriations or grant opportunities. In addition to the installed equipment, a GIS map will be created and added to the City's website to provide a way for emergency responders and the general public to

monitor water levels at each of these sites in real time. This project will also research ways that this system can be incorporated in to existing Police and Fire Department warning systems, as well as the City's proposed Traffic Management Center (TMC) to notify the public of flooded roadways in their area.

The Public Works Department Staff prepared a Request for Proposals (RFP) to solicit the services of a qualified firm to complete the Flood Warning System Project. The RFP was advertised in May 2022.

Three (3) proposals were received for this project. The Selection Committee included three (3) staff members consisting of Jason Murphy, Stormwater Program Manager, Public Works Department; David Grizzle, Emergency Management Coordinator, Fire Department; and David Riesland, Transportation Engineer, Public Works Department; and two (2) private citizens including Mark Kleine and Ed Hatch. The Selection Committee members independently scored each statement of qualifications on a point scale as defined in the RFP. The three (3) firms were ranked and two (2) firms were selected for a follow-up interview. The Selection Committee met with the two firms and selected Meshek & Associates, LLC. Meshek & Associates, LLC was selected based upon their experience working with other municipalities on similar projects and the proposed methods and procedures for completing the scoping project. Required services will include the following:

- 1. Project Management
- 2. Develop Assessment Standards
- 3. Evaluate Emergency Management Processes
- 4. Assess Traffic and Development Information
- 5. Analysis for Sensor Locations & Justification
- 6. Final Report & Implementation Plan

Staff began negotiations with Meshek & Associates, LLC in July 2022. Budgeted capital funds of \$25,000 for Project DR0023, Flood Warning System, Design, are available in Account (50592214-46201), and \$75,000 is available from Account (22592214-46201). The project is scheduled to begin on October 1, 2022, and be completed by June 30, 2023.

RECOMMENDATION:

Staff recommends approval of Contract K-2223-19 with Meshek and Associates for completion of the Flood Warning Scoping project.