

Department of Public Works – Engineering Division

MEMO

TO: Utilities Committee

FROM: Paula Vandehey, Director of Public Works
Sue Olson, Staff Engineer
Pete Neuberger, Staff Engineer

DATE: February 5, 2018

RE: Approval to single source and award 2019M stormwater consulting services contract for Kernan Ravine Preliminary Engineering with Brown and Caldwell in an amount not to exceed \$41,670.

The Department of Public Works is requesting approval to single source and award 2019M stormwater consulting services contract for Kernan Ravine Preliminary Engineering with Brown and Caldwell (BC) in an amount not to exceed \$41,670.

As previously reported to the Utilities Committee, the major rainstorms that occurred in August and September 2018 caused a 30 inch storm sewer in the ravine west of the intersection of Kernan Avenue and Dewey Street to collapse. The storm sewer is over 20 feet deep and is located in an easement crossing residential properties and underneath a garage. Staff believes that this is an emergency situation and a new pipe needs to be installed in 2019.

The new storm pipe cannot discharge into the ravine without proper stabilization to prevent erosion of the ravine. Therefore, any solution is expected to require a variety of permits from the Wisconsin Department of Natural Resources (WDNR) and possible the Army Corps of Engineers, (ACOE), including Chapter 30 and wetland permits.

The Kernan Ravine is part of the 2006 East College Avenue study. This study is already being updated as part of the 2019C Newberry Street contract with BC. The Newberry project went through an RFP process, with BC being selected as the most qualified and cost effective consultant. BC has also performed successfully on past stream stabilization projects for the City, such as the stream in Reid Golf Course and Apple Creek north of CTH JJ. Based on this information staff believes that BC has demonstrated their qualifications for modeling and design as needed for the Kernan Ravine project. Therefore staff is requesting to single source the Kernan Ravine project to BC.

Work under this contract will include:

- Expanding the update of the East College Avenue water quantity model beyond Newberry Street for the Kernan Ravine
- Determining the correct size pipe to replace the existing pipe

- Evaluating different construction methods (tunnel, open cut) and site access for construction
- Preparing 30% designs for the new pipe
- Meeting with regulatory staff and neighbors
- Evaluating options for energy dissipation and ravine stabilization
- Preparing 30% designs for the ravine stabilization

With satisfactory performance by the consultant, it is anticipated that shortly after an alternative is selected, a request to contract for bidding documents and permitting will be brought to committee for approval.