


# COUNCIL COMMUNICATION

	Number:	<b>21-031</b>	Meeting:	<b>January 25, 2021</b>
	Agenda Item:	<b>9ABC</b>	Roll Call:	<b>21-0072</b>
	Submitted by:	<b>Steven L. Naber, P.E., City Engineer</b>		

## AGENDA HEADING:

Approving the following three (3) Supplemental Agreements to the Professional Services Agreements (PSA) related to the Des Moines Levee Alterations - Phases A, B, and C:

- Approving Supplemental Agreement No. 3 to the PSA with Stantec Consulting Services, Inc. for additional professional services for Des Moines Levee Alterations – Phase A, for an amount not to exceed \$226,000.
- Approving Supplemental Agreement No. 2 to the PSA with Stantec Consulting Services, Inc. for additional professional services for Des Moines Levee Alterations – Phase B, for an amount not to exceed \$81,000.
- Approving Supplemental Agreement No. 3 to the PSA with Barr Engineering Company for additional professional services for Des Moines Levee Alterations – Phase C, for an amount not to exceed \$260,800.

## SYNOPSIS:

Recommend approval of Supplemental Agreement No. 3 to the PSA with Stantec Consulting Services, Inc., for an additional amount not to exceed \$226,000, based on hourly labor rates and reimbursable costs, to provide additional professional services for Des Moines Levee Alterations – Phase A.

Recommend approval of Supplemental Agreement No. 2 to the PSA with Stantec Consulting Services, Inc., for an additional amount not to exceed \$81,000, based on hourly labor rates and reimbursable costs, to provide additional professional services for Des Moines Levee Alterations – Phase B.

Recommend approval of Supplemental Agreement No. 3 to the PSA with Barr Engineering Company, for an additional amount not to exceed \$260,800, based on hourly labor rates and reimbursable costs, to provide additional professional services for Des Moines Levee Alterations – Phase C.

## FISCAL IMPACT:

Amount: \$226,000 for Des Moines Levee Alterations – Phase A  
\$81,000 for Des Moines Levee Alterations – Phase B  
\$260,800 for Des Moines Levee Alterations – Phase C

Funding Source: 2020-2021 CIP, Page Storm Water-7, Flood Mitigation Improvements, SM087, State Flood Mitigation funds

**ADDITIONAL INFORMATION:****PHASE A:**

- On May 7, 2018, by Roll Call No. 18-0750, City Council approved the PSA for Phase A with Stantec Consulting Services, Inc. (Stantec) for a total cost not to exceed \$952,300, based on hourly rates, to provide design phase services.
- Supplemental Agreement No. 1 to the Agreement for Professional Services with Stantec for an additional amount not to exceed \$312,800, based on hourly rates, was approved by City Council on March 9, 2020, to provide environmental study and coordination of SE 9<sup>th</sup> Street Pump Station, borrow study, and design of additional levee height, Principal Park closure structures, electric actuator and generator services for Des Moines Levee Alterations – Phase A.
- Phase A construction contract was awarded to Corell Contractor, Inc. for \$2,606,976.90 by Council on August 5, 2020 and incorporates the upstream reaches of the DM-I and DM-II levee systems along the Des Moines River upstream of the confluences with the Raccoon River.
- Supplemental Agreement No. 2, for an additional amount not to exceed \$23,800, based on hourly rates, was approved by the City Engineer on January 8, 2021, and includes additional design services for the Simon Estes Amphitheater.
- Staff negotiated Supplemental Agreement No. 3 to the Agreement for Professional Services with Stantec for an additional amount not to exceed \$226,000, based on hourly rates and reimbursable costs, to provide construction phase services for the Phase A Project, including:
  - Attending construction progress meetings.
  - Performing reviews of contractor submittals including shop drawings, pay requests, and change order requests.
  - Completing inspections before substantial and final completion.
  - Preparing record construction drawings.
  - Preparing a Construction Report that documents the construction, including Daily Field Reports, Test Results, Construction Progress Meeting Minutes, Project Decision and Action Items Log, and Final Construction Schedule, to support the City's future system accreditation request from the Federal Emergency Management Agency (FEMA).

**PHASE B:**

- Phase B incorporates reaches of the DM-II and DM-III levee systems along the Raccoon River upstream of SW 3<sup>rd</sup> Street. Phase B construction is estimated to cost \$11,730,000.
- On May 7, 2018, by Roll Call No. 18-0751, City Council approved the PSA for Phase B with Stantec Consulting Services, Inc. for a total cost not to exceed \$1,363,700, based on hourly rates, to provide design phase services.
- Supplemental Agreement No. 1 to the Agreement for Professional Services with Stantec for an additional amount not to exceed \$210,600, based on hourly rates, was approved by City Council on March 9, 2020, to provide additional environmental study, survey, acquisition plats, and design work related to widening and raising of the levee services for Des Moines Levee Alterations – Phase B.

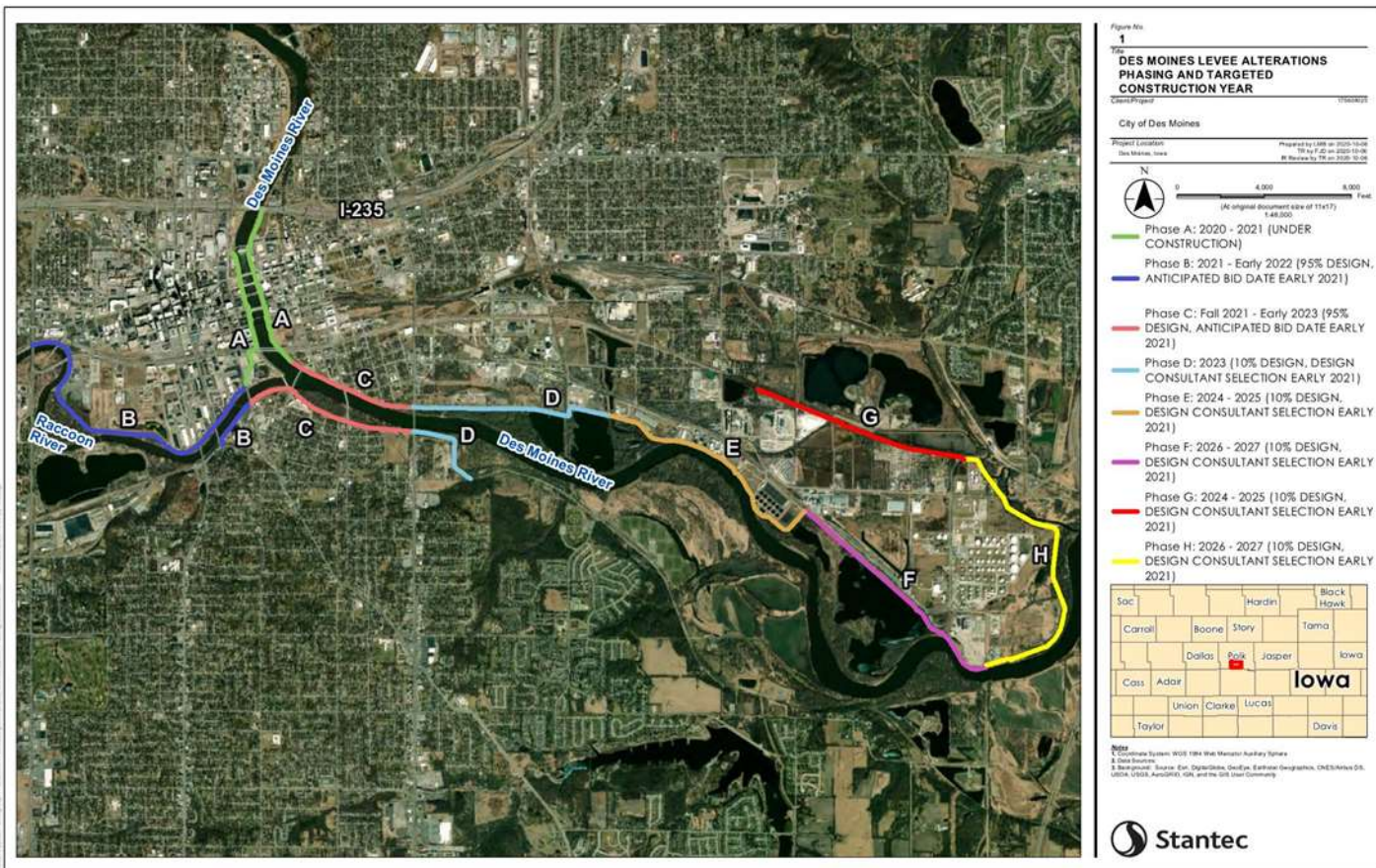
- Staff negotiated Supplemental Agreement No. 2 to the Agreement for Professional Services with Stantec for an additional amount not to exceed \$81,000, based on hourly rates and reimbursable costs, to provide additional design phase services including:
  - Perform additional structural and civil layout design and prepare plans, technical specifications and documentation for repairs and modifications to Gatewell #143 located adjacent to the DICO site along the Raccoon River.
  - Develop and provide an additional 39 easement plats needed for construction of the levees, including access routes and staging areas.

### PHASE C:

- Phase C incorporates the downstream reaches of the DM-I and DM-III levee systems along the Des Moines River from approximately the confluence with Raccoon River to just downstream of SE 14<sup>th</sup> Street. Phase C construction is estimated to cost \$12,820,000.
- On May 7, 2018, by Roll Call No. 18-0752, City Council approved the PSA for Phase C with Barr Engineering Company for a total cost not to exceed \$1,020,800, based on hourly rates, to provide design phase services.
- Supplemental Agreement No. 1 to the Agreement for Professional Services with Barr Engineering Company for an additional amount not to exceed \$24,900, based on hourly rates, was approved by the City Engineer on July 3, 2019, to provide SE 9<sup>th</sup> Street Storm Water Pump Station Seepage Mitigation Design for Des Moines Levee Alterations – Phase C.
- Supplemental Agreement No. 2, for an additional amount not to exceed \$341,354, based on hourly rates, was approved by City Council on March 9, 2020, to provide additional environmental study, design of additional height levee, closed circuit pipe televising, and design sheet reconfiguration services for Des Moines Levee Alterations – Phase C.
- Staff negotiated Supplemental Agreement No. 3 to the Agreement for Professional Services with Barr Engineering Company for an additional amount not to exceed \$260,800, based on hourly rates and reimbursable costs, to provide additional design phase services, including:
  - *Hartford Borrow Site Evaluation* – Perform an evaluation of a borrow site (City property) off of Hartford Avenue and incorporate soil information into the design for borrow material to be used in construction of the levee alterations.
  - *Pump Station Coordination and Design Modifications* – Additional coordination and design services to incorporate and coordinate geotechnical improvements to the levee system into the construction of the SE 9<sup>th</sup> Street Pump Station project and the SE 4<sup>th</sup> and Van Buren Pump Station project.
  - *Tree Impact Evaluation* – Evaluate the potential impact of the proposed construction activities on existing trees.
  - *Seepage Mitigation Review* – Perform geotechnical seepage and stability modeling and design optimization and provide additional reviews of seepage mitigation alternatives.
  - *6th Street Closure Options* – Review multiple alignment options for the 6<sup>th</sup> Street closure crossing and incorporate any modifications into the design.
  - *48-inch Prestressed Concrete Cylinder Pipe (PCCP) Watermain Potential Failure Mode Analysis (PFMA) and Design Modifications* – Perform a PFMA for the 4-inch PCCP watermain at two (2) locations crossing the levee system to assess the risk of the water main with the levee system alterations, coordinate analysis with Des Moines

Water Works, and incorporate water main protection measures into the design plans and specifications.

- *14<sup>th</sup> Street Ramps and Trail* – Determine the feasibility of multi-use trail at-grade and under-pass ramps at the SE 14<sup>th</sup> Street Bridge over Des Moines River as requested by the City Parks and Recreation Department.
- *Additional Interior Drainage Improvements* – Complete design of a rain garden to reduce a known drainage/ponding issue located upstream of SE 6<sup>th</sup> Street near the Eagles Loft complex within the levee reach.
- *Trail Detour Graphics* – Develop full map graphics of trail detours for signage during construction.
- *Jackson Basin Outlet Assessment and Modifications* – Incorporate modifications to minimize sediment accumulation and improve maintenance functions for the three (3) gravity box culverts from the gatewell structure at the Jackson Basin.
- *Meredith Bridge Debris Access Ramp* – Review of access options for removal of debris upstream of the Meredith Trail Bridge, and incorporate access ramp surfacing details to accommodate maintenance vehicle access in the design documents.
- *Existing SE 9<sup>th</sup> Street Pump Station Abandonment* – Develop pump station abandonment drawings and incorporate a connection of the seepage relief trench pipe system to the existing pump station.



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**PREVIOUS COUNCIL ACTION(S):**

Date: March 9, 2020

Roll Call Number: [20-0404](#), [20-0405](#), and [20-0406](#)

Action: Approving Supplemental Agreements for Des Moines Levee Alterations ([Council Communication No. 20-118](#))

- (A) [Supplemental](#) Agreement No. 1 to the PSA with Stantec Consulting Services Inc. for additional design services for Des Moines Levee Alterations – Phase A, not to exceed \$312,800. Moved by Boesen to adopt. Motion Carried 7-0.
- (B) [Supplemental](#) Agreement No. 1 to the PSA with Stantec Consulting Services Inc. for additional design services for Des Moines Levee Alterations – Phase B, not to exceed \$210,600. Moved by Boesen to adopt. Motion Carried 7-0.
- (C) [Supplemental](#) Agreement No. 2 to the PSA with Barr Engineering Company for additional design services for Des Moines Levee Alterations – Phase C, not to exceed \$341,354. Moved by Boesen to adopt. Motion Carried 7-0.

**BOARD/COMMISSION ACTION(S): NONE**

**ANTICIPATED ACTIONS AND FUTURE COMMITMENTS:**

- City staff anticipates two (2) Supplemental Agreements for the consultants to provide construction phase services for a total amount in the range of \$940,000 - \$1,180,000 for Phase B and \$1,030,000 - \$1,280,000 for Phase C.
- PSA for Phases D-H shown in the above figure will be presented for future Council consideration.

For more information on this and other agenda items, please call the City Clerk's Office at 515-283-4209 or visit the Clerk's Office on the first floor of City Hall, 400 Robert D Ray Drive. Council agendas are available to the public at the City Clerk's Office on Thursday afternoon preceding Monday's Council meeting. Citizens can also request to receive meeting notices and agendas by email by calling the Clerk's Office or sending their request via email to [cityclerk@dmgov.org](mailto:cityclerk@dmgov.org).