

COUNCIL ACTION FORM

SUBJECT: SOUTH GRAND AVENUE EXTENSION – 0.1 MILES NORTH OF SOUTH 16TH STREET NORTH 0.54 MILES TO SOUTH 5TH STREET – CHANGE ORDER NO. 5

BACKGROUND:

This project is part of the extension of South Grand Avenue from S 3rd Street to S 16th Street and associated projects to extend S 5th Street and for intersection improvements at S 16th Street/S Duff Avenue. The projects have been broken into three phases to allow for potential flexibility in timing of construction and funding. The phases are:

- 1) S. 5th St extension and the portion of S. Grand Ave from Squaw Creek Drive (the existing dead end) to S. 5th St.
- 2) S Grand Ave South of S. 5th Street (this portion includes two bridges to accommodate Squaw Creek under the roadway).
- 3) Reconstruction and widening additional turn lanes at S. Duff Ave and S. 16th St.

This project includes extension of South Grand Avenue from the new South 5th Street to 0.1 miles north of South 16th Street (Phase 2 described above).

On March 10, 2020, City Council awarded the contract to Peterson Contractors, Inc., of Reinbeck, Iowa in the amount of \$9,368,716.27. Four change orders have been administratively approved by staff:

1. Change order No. 1 in the amount of \$16,286.26 was for irrigation and electrical repair, adding a stabilized construction entrance, and removing concrete foundation.
2. Change order No. 2 in the amount of \$1,050 was to install a subdrain outlet.
3. Change order No. 3 in the amount of \$2,090 was for removal of existing timber pile in loway Creek channel.
4. Change order No. 4 in the amount of \$24,417.58 was for concrete structure thermal protection and changing the symbols and legends from paint to thermoplastic.

Change order No. 5 (this action), in the amount of \$24,466.20, is for bridge deck sealant. During the final walkthrough of the project, micro-cracking was discovered on the

decks of both bridges. The two bridges were constructed by two different contractors (one by prime contractor and one by subcontractor), each following the specifications.

The Iowa Department of Transportation (DOT) is noticing similar micro-cracking on other bridge deck projects around the state and is now including these bridges in a larger analysis to determine the cause. **Iowa DOT does not consider this to be a construction deficiency nor that it will impact safety or the deck/bridge lifespan, and has recommended applying Pavix Sealer. This sealer has been successfully used to seal the micro-cracking, self-heal future cracks, and prevent water and salt penetration in other locations. Additionally, because Iowa DOT does not consider this micro-cracking to be a defect in workmanship, Iowa DOT has determined that the cost of applying the protective sealant must be paid with our local funds.**

All the change orders above were approved by Iowa DOT, which is a requirement of using the MPO/Federal/State funding. A summary of revenues and projected expenses is shown below.

Activity	Expenses	Revenue
Engineering (overall total)	\$2,625,350.00	
South 5 th Street Project (Awarded)	3,159,304.15	
S 16 th St/S Duff Project (Estimated)	3,835,811.40	
Construction w/ Change Orders (this project)	9,437,026.31	
GO Bonds		\$11,580,000
MPO/STP Funds (\$4,300,000 in CIP)		5,500,000
Federal/State Grants (\$4,273,000 in CIP)		2,791,485
TOTAL	\$19,057,491.86	\$19,871,485

ALTERNATIVES:

1. Approve Change Order No. 5 in the amount of \$24,466.20.
2. Direct staff to pursue changes to the project.

CITY MANAGER'S RECOMMENDED ACTION:

The City's Purchasing Policies and Procedures requires City Council approval for contract change orders that result in a cumulative change totals more than \$50,000. This change order for the cost of sealant to the bridges to address micro-cracking requires City Council approval.

Therefore, it is the recommendation of the City Manager that the City Council adopt Alternative No. 1, as described above.