

ITEM #: 19
DATE: 08-08-23
DEPT: PW

COUNCIL ACTION FORM

**SUBJECT: FY 2022/23 & 2023/24 AMES PLAN 2040 WATER UTILITY
INFRASTRUCTURE – (LINCOLN WAY & US HIGHWAY 69)**

BACKGROUND:

This program involves extension of public water infrastructure into priority tiers identified in Ames Plan 2040. By installing the water systems proactively, land in the adopted growth tiers becomes prepared for development. **This project includes extending a new 12” water main along Lincoln Way to County Line Road and 14” water main along US Highway 69 south of Ken Maril Road.**

On March 28, 2023, City Council awarded the contract to Thorpe Contracting, LLC, of Adel, Iowa in the amount of \$705,672. Change Order No. 1 in the amount of \$36,040 was approved by staff to switch to boring a section of water main to save several mature trees along Lincoln Way. **Change Order No. 2 (this action) is in the amount of \$122,970 for additional scope of work.** To meet IDOT requirements, the original water main alignment had to be shifted to be 10’ away from the foreslope/ditch of US 69. The information below summarizes this additional work to meet this requirement.

- **Additional Casing Pipe, Steel 22” diameter** –DOT regulations require utility lines installed longitudinally to primary highway right-of-way shall be encased. The original plans show this section of the water main to be trenchless without any encasement.
- **Hydrant Extensions** – Per IA DOT requirement, by shifting the water main toward the backslope, hydrant extensions were needed.
- **Fitting, 45-degree bend** – By shifting the water main alignment away from the foreslope/ditch, additional 45-degree fittings were required to accomplish this work.
- **Excavation of Debris and Disposal** – While excavating the bore pits for the casing pipe at the water crossing, a large amount of old construction debris was encountered. Most of the debris consisted of large pieces of concrete, steel rebar, and wood. The debris caused several issues during the dewatering and excavation for the bore pit. Additionally, the debris is not suitable to backfill the new water main and, therefore, it was trucked off site. Suitable fill material was imported for backfill.
- **Hydrant Relocation** – The connection into the existing water main on Lincoln Way required an existing hydrant to be relocated.

Revenue and expenses associated with this program are estimated as follows:

	Available Revenue	Estimated Expenses
22/23 American Rescue Plan Act (ARPA)	\$ 320,000.00	
23/24 American Rescue Plan Act (ARPA)	759,680.50	
Construction (Base Bid)		\$ 602,022
Construction (Add Alternate) –		103,650
Change Order No. 1		36,040
Change Order No. 2 (this action)		122,970
Engineering/Administration		106,000
	\$1,079,680.50	\$ 970,682

ALTERNATIVES:

1. Approve Change Order No. 2 in the amount not to exceed \$122,970.
2. Direct staff to pursue changes to the project.

CITY MANAGER’S RECOMMENDED ACTION:

By approving this change order, this project will comply with IDOT permit requirements and SUDAS, and it will extend public water infrastructure into priority growth tiers as identified in Ames Plan 2040. Even with the addition of this change order, the program expenses still are estimated to be below the available programmed funding amount. Therefore, it is the recommendation of the City Manager that the City Council adopt Alternative No. 1, as described above.