

RECORD OF RESOLUTIONS

Resolution No. 2018-Z

August 6, 2018

City of Bellbrook

Resolution No. 2018-Z

A Resolution Approving Change Orders and Amending the Total Project Cost for the Upper Hillside Water Main Improvement Project

WHEREAS, on January 22, 2018 the City of Bellbrook approved Resolution 2018-F and entered into a contract with Brackney, Inc. for the construction of the Upper Hillside Water Main Improvement Project with a total contract amount of \$1,166,510.50; and

WHEREAS, during the construction process various unforeseen issues were identified by the contractor that were not a part of the original bid process; and

WHEREAS, the contractor has submitted change orders to be considered by the City of Bellbrook in order to complete the project; and

WHEREAS, the change orders to date, along with a new contingency amount total an increase of \$55,000 to the total project cost bringing the new project total to \$1,221,510.50; and

WHEREAS, these change orders have been considered by the City's engineer and deemed necessary in order to complete the project; and

Now, Therefore, the City of Bellbrook Hereby Resolves:

Section 1. That the change orders submitted by Brackney, Inc. for the Upper Hillside Water Main Improvement Project to date in the amount of \$30,404.25 are hereby accepted.

Section 2. That the City Manager is hereby authorized to approve said change orders to date submitted by Brackney, Inc. as stated above.

Section 3. That \$24,500 is dedicated to contingent costs that could occur until the project is finalized.

Section 4. That this resolution shall take effect and be in force forthwith.

Michael Schweller, Deputy Mayor

Jami L. Kinion, Clerk of Council



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August 1, 2018

City of Bellbrook
Attn: Melissa Dodd
15 E Franklin St
Bellbrook Ohio 45305

Re: Upper Hillside Water Main Improvement Project

Dear Ms. Dodd:

In December 2017 the City received bid proposals and awarded the Upper Hillside Water Main Improvement project to Brackney Construction (bid amount: \$1,166,510.50). The project includes the replacement of the existing water main throughout the Upper Hillside Plat, the installation of a Pressure Reducing Valve (PRV) Pit to regulate water pressure in the system, and the resurfacing of all the streets within the plat. The new main will be ductile iron and reduce water main breaks in the plat. Additionally new exterior water meters will be installed on approximately 40 lots to allow the City to read the meter without entering the residence. The PRV pit located on Clear Creek Lane will regulate water pressure between the low pressure and high pressure system and will communicate with the City water system via fiberoptic cable.

During the design of the project our team and City staff worked with multiple entities in an effort to determine the best way to communicate with the proposed PRV Pit. Due to the topographic and elevation changes our team could not use a radio connection back to the water plant or public works building (with Clear Creek Lane in a hole and Upper Hillside and Main Street above we could not obtain clear line of sight for radio transmission). The City's experience with the cellular providers in the area did not provide sufficient comfort that a reliable cellular connection could be achieved. The only solution was fiberoptic cable. Once fiber was determined to be the best solution our team looked for installation options. The 2 options were buried or aerial (on a pole line) installation. We worked with Jacobs Telephone, Delta Controls and DP&L for more than 6 months prior to bidding to determine if aerial was an option. In order to meet the completion date of August 17, 2018 we needed to bid the project but had not yet been able to determine if the preferred aerial solution was feasible. We finally received word on July 27th that DP&L will allow for the installation of the fiberoptic line on the existing pole line (see attached). This will generate a change order to the project.

In addition to the upgrade of the fiberoptic cable from a buried trench to an aerial installation several other unforeseen items have come up during construction which have generated additional unplanned costs to the project. These include:

- 3 manholes found covered under pavement which we no one knew existed
- Relocation of PRV pit from anticipated spot due to field location of the existing water main and sanitary sewer
- Sump pump for the PRV pit since the installed location would not allow gravity drainage
- Increase in water service size at dual meter pits to 1"



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- Addition of 6" line stop and restoration at Upper Hillside since the existing valve would not close

During construction of the project the contractor and design team were able to identify several value engineering items based on field conditions which resulted in a positive deduct to the overall project.

Once the potential additions and deducts were accounted for the total cost above and beyond the approved project cost is \$30,404.25.

It is my recommendation the City of Bellbrook allocate an additional \$55,000 to a not to exceed overall project cost of \$1,221,510.50 to complete the Upper Hillside Water Main Improvement Project. The increase will cover all anticipated change orders to date as well as provide a \$24,500 contingency if needed to finalize the project.

Should you have any questions about the materials presented, or need additional information, please do not hesitate to contact me at (513) 509-9336.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Michael S. Murray'.

Principal

Michael S. Murray, P.E.
614-818-4900
mike.murray@ibigroup.com



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