



**TO:** Michael C. Van Milligen, City Manager

**FROM:** Christopher Lester, Water Department Manager  
John Klostermann, Public Works Director

**DATE:** August 10, 2021

**RE:** Orchard Drive, Cider Ridge and Jonathan Lane Water Main Project 2021 Award Resolution

### **INTRODUCTION**

The purpose of this memorandum is to award the Orchard Drive, Cider Ridge and Jonathan Lane Water Main Replacement Project 2021 to Temperley Excavating in the amount of \$432,316.50.

### **BACKGROUND**

Since 2004, the area in and around Orchard Drive, Cider Ridge and Jonathan Lane has been subject to thirteen water main breaks across a 1,250 feet portion of water main, with four (4) of those events occurring on March 1, 2021, following isolation of the Roosevelt Street Water Tower as part of a construction punch-list outage. Not only are the residents inconvenienced with unplanned water outages, but the water also comes to the surface during the main breaks resulting in significant street damage.

The City's Public Works department has scheduled the area to be "milled-and-filled" and have requested the water main work be conducted ahead of their paving program.

The water main in the Orchard Hills subdivision area was installed between 1962 and 1965 and is 6-inch ductile iron pipe with standard bury depths of around 5.5 feet.

### **DISCUSSION**

The project scope includes approximately 1,350 lineal feet of water main on Orchard Drive from the intersection of Orchard Drive south toward the intersection of Jonathan Lane and Delicia Drive. This is an area is subject to water hammer which leads to water main breaks, therefore an air release structure will be added as a part of the project which will provide a location to allow the air to exit the water distribution system.

The project will also include the replacement of approximately 680 feet of curb and gutter and 360 feet of sidewalk, including the replacement ADA ramp at the northwest corner of Orchard Drive and Delicia Drive. The proposed HMA pavement replacement

will be completed by the contractor with funding assistance from the City of Dubuque Public Works Department.

### **PROJECT SCHEDULE**

The proposed schedule is as follows:

Initiate Public Bidding & Set Public Hearing Date	July 19, 2021
Publish Public Hearing Notice on Plans & Specs	July 23, 2021
Publish Notice to Bidders, Advertise for Bids	July 23, 2021
Public Hearing on Plans & Specifications	August 2, 2021
Receipt of Bid Proposals (Bid Letting)	August 9, 2021
Award Construction Contract	August 16, 2021
Project Completion Date	November 5, 2021

### **BID RESULTS**

Sealed bids were received and publicly opened on August 9, 2021, for the Orchard Drive, Cider Ridge and Jonathan Lane Water Main Replacement Project 2021. Temperley Excavating of East Dubuque, Illinois submitted the apparent low bid in the amount of \$432,316.50. A summary of the bid proposals received is as follows:

<b><u>Item No.</u></b>	<b><u>Contractor Name</u></b>	<b><u>Base Bid Amount</u></b>
1	Temperley Excavating	\$432,316.50
2	Top Grade Excavating	\$466,905.00
3	McDermott Excavating	\$479,223.75
4	Portzen Construction	\$529,732.00
7	Tschiggfrie Excavating	\$532,707.50

### **RECOMMENDATION**

The recommendation is to award the contract for the Jonathan Lane, Cider Ridge, and Orchard Drive Water Main Replacement Project to Temperley Excavating of East Dubuque, Illinois in the amount of \$432,316.50.

### **BUDGET IMPACT**

Funding for the project will be from Unspent Bond Proceed funds and FY21 Water Main Improvement CIP No. 7401405, see table below for summary; plus a portion of a Public Works ADA and Pavement project funding sufficient to cover the proposed project expenses. The original estimate of probable cost for the Orchard Drive, Cider Ridge and Jonathan Drive Water Main Project 2021 is:

<b><i>Description</i></b>	<b><i>Original Cost Estimate</i></b>	<b><i>Bid Cost Estimate</i></b>
Construction Cost Estimate, Water + Public Works	\$305,065	\$432,316.50
Contingency (10%)	\$31,000	
Engineering Design (Preliminary and Final)	\$39,200	\$39,200

Bidding and Award	\$6,800	\$6,800
Construction Engineering, inc. Inspection	\$47,000	\$47,000
<b>Total Estimate Project Cost</b>	<b>\$429,065</b>	<b>\$525,316.50</b>

The lowest bid of \$432,316.50 from Temperley Excavating includes ADA curb ramp replacement and hot mix asphalt (HMA) pavement removal and replacement beyond the original project scope, This additional work was requested by the Public Works Department to reduce coordination conflicts and to ensure the project is completed prior to the asphalt plant season closure. The additional line-item expense for the requested ADA and HMA pavement totals \$89,969.25, which will be paid for from the Public Works ADA and Pavement CIPs.

Subtracting the additional ADA curb ramp and pavement items, \$432,316.50 minus \$89,969.25 equals the bid cost for the water main replacement line items, totaling \$342,347.25, or 1.9% higher than the estimate of probable cost of \$305,065 plus 10% contingency equaling \$336,065.

The source of the funds that would be available to cover the project as bid plus engineering costs, are Unspent Bond Proceeds from Bond Series 2014 B ,CIP Funds in 7401405-Water Main Replacement, CIP 300-1227 PW ADA, and CIP250-5440 PW PVMT :

CIP No.	Bond Series	Department	Project	Available Funding
740-1672	2014 B	Water	Roosevelt Road Water Tower	\$161,990.64
740-2658	2014 B	Water	Water Main Replc - Sewer Construction	\$92,144.67
740-2594	2014 B	Water	SW Arterial Water Mains	\$167,898.77
740-1405		Water	Water Main Replacements (FY21)	\$7,030.92
740-1405		Water	Water Main Replacements (FY22)	\$6,282.25
300-1227		Public Works	ADA Curb Ramp	\$37,748.80
25054400		Public Works	Pavement	\$52,220.45
<b>Total Available Funds</b>				<b>\$525,316.50</b>

### **ACTION TO BE TAKEN**

The City Council is requested to award the construction contract for the Jonathan Lane, Cider Ridge, and Orchard Drive Water Main Replacement Project 2021 to Temperley Excavating of East Dubuque, Illinois in the amount of \$432,316.50, through the adoption of the attached resolution.

cc: Jenny Larson, Director of Finance & Budget  
Arielle Swift, Assistant Public Works Director  
Kerry Leppert, Water Engineering Assistant