



US 460  
 Frankfort, KY 40601  
 Office: (502) 695-9800  
 Fax: (502) 695-9810

April 1, 2020

Marta Elliot, Area Specialist  
 Rural Development  
 1000 Commonwealth Drive  
 Mayfield, KY 42066

Re: Final Engineering Report  
 Water System Improvements Project  
 North Hopkins Water District  
 HMB #4254.01

Dear Mrs. Elliot:

As you are aware, the above referenced project was bid March 31, 2020.  
 The low bidders were as follows:

- Contract I (Water Line & Pump Station) - Knights Construction & Excavating with a bid of \$587,014
- Contract II (Water Meter Purchase) – Core & Mains with a bid of \$166,190.07
- Contract III (AMR System) – United Systems and Software with a bid of \$125,950

Following is a summary of the financing and budget for this project:

<u>Project Budget</u>	<u>Letter of Conditions</u>	<u>As Bid</u>
Development	\$880,000	\$879,164.97
Land and Rights	\$5,000	\$5,000.00
Legal & Administration	\$15,000	\$15,000.00
Engineering	\$130,600	\$130,600.00
Interest	\$10,000	\$10,000.00
Other	\$3,000	\$16,500.00
<u>Contingencies</u>	<u>\$96,400</u>	<u>\$83,735.03</u>
<b>Total Project Cost</b>	<b>\$1,140,000</b>	<b>\$1,140,000.00</b>

Financing:

<u>Funding Source</u>	<u>Letter of Conditions</u>
RUS Grant	\$285,000
RUS Loan	<u>\$855,000</u>
<b>Total Project Cost</b>	<b>\$1,140,000</b>

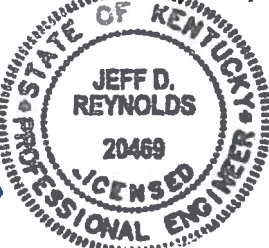
It appears this project can be completed within the available funding. Therefore, we recommend this contract be approved and allowed to go forward. Please contact us if there are any questions.

If you have any questions or need additional information, please call.

Sincerely,

HMB Professional Engineers, Inc.

  
 Jeff Reynolds, P.E. 4/2/20



Highway Engineering  
 Structural Engineering  
 Water & Wastewater  
 Site Development  
 Right-of-Way  
 Master Planning  
 Environmental Planning  
 Surveying  
 Project Management  
 Cost Estimation  
 Construction Inspection  
 Aviation Services  
 Environmental Remediation  
 Landscape Architecture



**Bid Tabulation**  
**Contract I - Water Line & Pump Station**  
**North Hopkins Water District**

Project: 4254.01  
 Date: 3/31/2020  
 Engineer: JR  
 Page: 1

Bid Date: March 31, 2020 @ 11:00 AM local time

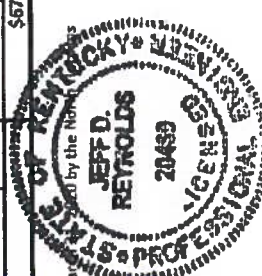
Item No.	Item	Quantity	Unit	Knight Construction & Excavating		Bobby Luttrell and Sons		Infinity Pipeline		Hubert Excavating	
				Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total
1	8" PVC, Class 200 Pipe, SDR-21, Furnishing, Trenching, Installing and Backfilling (Unclassified Excavation)	18,700	LF	\$11.00	\$205,700.00	\$11.65	\$217,855.00	\$11.00	\$205,700.00	\$14.50	\$271,150.00
2	14" Steel Casing by Bore & Jack under State, County and City Roads (Water Line Not Included)	150	LF	\$140.00	\$21,000.00	\$185.00	\$27,750.00	\$235.00	\$35,250.00	\$230.00	\$34,500.00
3	Open Cut Furnishing and Installing 14" PVC Casing Under Gas Main (Water Line Not Included)	500	LF	\$40.00	\$20,000.00	\$65.00	\$32,500.00	\$70.00	\$35,000.00	\$75.00	\$37,500.00
4	8" CI AWWA NRS Gate Valve and Box, Concrete Pad, Complete in Place	7	EA	\$1,700.00	\$11,900.00	\$2,000.00	\$14,000.00	\$2,000.00	\$14,000.00	\$1,575.00	\$11,025.00
5	6" CI AWWA NRS Gate Valve and Box, Concrete Pad, Complete in Place	1	EA	\$1,400.00	\$1,400.00	\$1,800.00	\$1,800.00	\$1,250.00	\$1,250.00	\$1,200.00	\$1,200.00
6	Furnish and Install 10"x8" Tapping Tee and Valve	1	EA	\$3,200.00	\$3,200.00	\$5,200.00	\$5,200.00	\$4,500.00	\$4,500.00	\$3,900.00	\$3,900.00
7	Furnish and Install 6"x6" Tapping Tee and Valve	2	EA	\$2,500.00	\$5,000.00	\$3,500.00	\$7,000.00	\$3,450.00	\$6,900.00	\$2,900.00	\$5,800.00
8	Fire Hydrant Assembly, Including Valve, Valve Box, Pipe and Fittings. Complete in Place	1	EA	\$4,100.00	\$4,100.00	\$5,850.00	\$5,850.00	\$4,300.00	\$4,300.00	\$4,800.00	\$4,800.00
9	Blowoff Assembly on Existing 8" Water Line, Including 8"x6" Wet Tap, Tapping Valve, Valve Box, Meter Box, Pipe and Fittings. Complete in Place	5	EA	\$3,700.00	\$18,500.00	\$4,500.00	\$22,500.00	\$3,750.00	\$18,750.00	\$2,700.00	\$13,500.00
10	Blowoff Assembly on Existing 6" Water Line, Including 6"x6" Wet Tap, Tapping Valve, Valve Box, Meter Box, Pipe and Fittings. Complete in Place	5	EA	\$3,650.00	\$18,250.00	\$4,450.00	\$22,250.00	\$3,500.00	\$17,500.00	\$2,700.00	\$13,500.00
11	Test Meter, Including Copper Setter, Meter, Meter Box, Lid, Service Tubing	1	EA	\$6,500.00	\$6,500.00	\$5,000.00	\$5,000.00	\$2,850.00	\$2,850.00	\$2,800.00	\$2,800.00
12	Automatic Air Release Valve Assembly and Box, Complete in Place	1	EA	\$1,700.00	\$1,700.00	\$3,000.00	\$3,000.00	\$1,400.00	\$1,400.00	\$1,150.00	\$1,150.00
13	#57 Crushed Stone on Trench Surface at Driveways, Roadway Crossings and Streets, Full Depth of Ditch	400	LF	\$15.65	\$6,260.00	\$14.50	\$5,800.00	\$14.50	\$5,800.00	\$12.50	\$5,000.00
14	Drain Tile Repair	5	EA	\$100.00	\$500.00	\$500.00	\$2,500.00	\$550.00	\$2,750.00	\$250.00	\$1,250.00
15	Cleanup and Restoration	18,700	LF	\$1.00	\$18,700.00	\$1.00	\$18,700.00	\$1.00	\$18,700.00	\$1.00	\$18,700.00
16	Videotape Entire Work Area Prior to Start of Construction	1	LS	\$5,000.00	\$5,000.00	\$1,000.00	\$1,000.00	\$2,200.00	\$2,200.00	\$10,000.00	\$10,000.00
17	Booster Pump Station, including but not limited to furnishing and installing pumps, piping, valves, controls, building, concrete, site work, drive, power pole, electric to site, fence etc. (Complete in Place)	1	LS	\$210,556.00	\$210,556.00	\$218,200.00	\$218,200.00	\$235,000.00	\$235,000.00	\$196,225.00	\$196,225.00
18	Meter Vault Installation, Including furnishing and installing fittings, gravel and drain pipe. Complete in Place. (Meter Vault Furnished by Webster County Water District)	1	LS	\$2,145.00	\$2,145.00	\$3,500.00	\$3,500.00	\$5,500.00	\$5,500.00	\$8,000.00	\$8,000.00
19	Slaughter's Meter Vault Installation, including furnishing and installing vault, meter, electric to meter, conduit, piping, fittings, valves, gravel and drain pipe. Complete in Place.	1	LF	\$26,613.00	\$26,613.00	\$20,000.00	\$20,000.00	\$23,000.00	\$23,000.00	\$10,000.00	\$10,000.00
<b>TOTAL BASE BID</b>					<b>\$587,024.00</b>		<b>\$634,405.00</b>		<b>\$640,350.00</b>		<b>\$650,000.00</b>



**Bid Tabulation**  
**Contract I - Water Line & Pump Station**  
**North Hopkins Water District**  
**Bid Dates: March 31, 2020 @ 11:00 AM local time**

Project: 4254-01  
 Date: 3/31/2020  
 Engineer: JR  
 Page: 2

Item No.	Item	Quantity	Unit	Emie Davis & Sons Mechanical		Crown Contracting & Paving		Cleary Construction		Norris Brothers Excavating	
				Unit Price	Total	Unit Price	Total	Unit Price	Total		Unit Price
1	8" PVC, Class 200 Pipe, SDR-21, Furnishing, Trenching, Installing and Backfilling (Unclassified Excavation)	18,700	LF	\$14.60	\$273,020.00	\$18.50	\$345,950.00	\$24.70	\$461,890.00	\$30.00	\$561,000.00
2	14" Steel Casing by Bore & Jack under State, County and City Roads (Water Line Not Included)	150	LF	\$230.00	\$34,500.00	\$198.00	\$29,700.00	\$214.00	\$32,100.00	\$240.00	\$36,000.00
3	Open Cut Furnishing and Installing 14" PVC Casing Under Gas Main (Water Line Not Included)	500	LF	\$80.00	\$40,000.00	\$33.00	\$16,500.00	\$68.30	\$34,150.00	\$188.00	\$94,000.00
4	8" CI AWWA NRS Gate Valve and Box, Concrete Pad, Complete in Place	7	EA	\$1,785.00	\$12,495.00	\$2,100.00	\$14,700.00	\$2,133.00	\$14,931.00	\$1,150.00	\$8,050.00
5	6" CI AWWA NRS Gate Valve and Box, Concrete Pad, Complete in Place	1	EA	\$1,310.00	\$1,310.00	\$1,550.00	\$1,550.00	\$1,600.00	\$1,600.00	\$800.00	\$800.00
6	Furnish and install 10"x8" Tapping Tee and Valve	1	EA	\$3,600.00	\$3,600.00	\$3,650.00	\$3,650.00	\$4,265.00	\$4,265.00	\$4,500.00	\$4,500.00
7	Furnish and install 6"x6" Tapping Tee and Valve	2	EA	\$2,700.00	\$5,400.00	\$4,550.00	\$9,100.00	\$3,199.00	\$6,398.00	\$4,000.00	\$8,000.00
8	Fire Hydrant Assembly, Including Valve, Valve Box, Pipe and Fittings. Complete in Place	1	EA	\$4,775.00	\$4,775.00	\$6,200.00	\$6,200.00	\$4,265.00	\$4,265.00	\$4,000.00	\$4,000.00
9	Blowoff Assembly on Existing 8" Water Line, Including 8"x6" Wet Top, Tapping Valve, Valve Box, Meter Box, Pipe and Fittings. Complete in Place	5	EA	\$3,450.00	\$17,250.00	\$14,000.00	\$70,000.00	\$3,412.00	\$17,060.00	\$2,800.00	\$14,000.00
10	Blowoff Assembly on Existing 6" Water Line, Including 6"x6" Wet Tap, Tapping Valve, Valve Box, Meter Box, Pipe and Fittings. Complete in Place	5	EA	\$3,450.00	\$17,250.00	\$13,800.00	\$69,000.00	\$3,679.00	\$18,395.00	\$4,000.00	\$20,000.00
11	Test Meter, Including Copper Setter, Meter, Meter Box, Lid, Service Tubing	1	EA	\$1,850.00	\$1,850.00	\$3,650.00	\$3,650.00	\$8,743.00	\$8,743.00	\$500.00	\$500.00
12	Automatic Air Release Valve Assembly and Box, Complete in Place	1	EA	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$2,666.00	\$2,666.00	\$2,200.00	\$2,200.00
13	#57 Crushed Stone on Trench Surface at Driveways, Roadway Crossings and Streets, Full Depth of Ditch	400	LF	\$25.00	\$10,000.00	\$24.00	\$9,600.00	\$15.00	\$6,000.00	\$10.00	\$4,000.00
14	Drain Tile Repair	5	EA	\$670.00	\$3,350.00	\$500.00	\$2,500.00	\$1,067.00	\$5,335.00	\$500.00	\$2,500.00
15	Cleanup and Restoration	18,700	LF	\$1.00	\$18,700.00	\$1.00	\$18,700.00	\$1.00	\$18,700.00	\$1.00	\$18,700.00
16	Videoeope Entire Work Area Prior to Start of Construction	1	LS	\$1,150.00	\$1,150.00	\$2,000.00	\$2,000.00	\$5,331.00	\$5,331.00	\$1,500.00	\$1,500.00
17	Booster Pump Station, Including but not limited to furnishing and installing pumps, piping, valves, controls, building, concrete, site work, drive, power pole, electric to site, fence etc. (Complete in Place)	1	LS	\$211,000.00	\$211,000.00	\$210,725.00	\$210,725.00	\$249,809.00	\$249,809.00	\$385,000.00	\$385,000.00
18	Meter Vault Installation, Including furnishing and installing fittings, gravel and drain pipe. Complete in Place. (Meter Vault Furnished by Webster County Water District)	1	LS	\$1,500.00	\$1,500.00	\$4,000.00	\$4,000.00	\$7,037.00	\$7,037.00	\$32,000.00	\$32,000.00
19	Slaughter's Meter Vault Installation, Including furnishing and installing vault, meter, electric to meter, conduit, piping, fittings, valves, gravel and drain pipe. Complete in Place.	1	LF	\$17,525.00	\$17,525.00	\$25,500.00	\$25,500.00	\$19,190.00	\$19,190.00	\$28,000.00	\$28,000.00
				<b>\$676,175.00</b>		<b>\$844,525.00</b>		<b>\$917,865.00</b>		<b>\$1,224,750.00</b>	



This is to state that the above is an accurate tabulation of bids received on March 31, 2020 for Contract I - Water Line & Pump Station.

Signed   
 Jeff Reynolds  
 Kentucky PE No. 20489

Indicates an error in the contractor's bid.



Project: 4254.01  
 Date: 3/31/2020  
 Engineer: JR  
 Page: 1

**Bid Tabulation**  
**Contract II - Water Meter Purchase**  
**North Hopkins Water District**  
**Bid Date: March 31, 2020 @ 11:00 AM local time**

Item No.	Item	Quantity	Unit	Core & Main		Total	Unit Price	Total	Unit Price	Total
				Unit Price	Total					
1	Furnish 5/8"x3/4" Water Meter with Itron Connector	1,170	EA	\$127.27	\$148,905.90					
2	Furnish 1" Water Meter with Itron Connector	15	EA	\$218.68	\$3,280.20					
3	Furnish 1-1/2" Water Meter with Itron Connector	6	EA	\$480.57	\$2,883.42					
4	Furnish 2" Water Meter with Itron Connector	1	EA	\$681.45	\$681.45					
5	Furnish High Resolution Electric Encoder for Water Meter with Itron Inline Connector	116	EA	\$90.00	\$10,440.00					
<b>TOTAL BASE BID</b>										<b>\$166,190.97</b>



This is to state that the above is an accurate tabulation of bids received on March 31, 2020 in the North Hopkins Water District for Contract II - Water Meter Purchase.

Signed  
 Jeff Reynolds  
 Kentucky PE No. 20469

Indicates an error in the contractors bid.



Project: 4254.01  
 Date: 3/31/2020  
 Engineer: .JR  
 Page: 1

**Bid Tabulation**  
**Contract III - AMR System**  
**North Hopkins Water District**  
 Bid Dates: March 31, 2020 @ 11:00 AM local time

Item No.	Item	Quantity	Unit	Unitized Systems		Total	Unit Price	Total	Unit Price	Total
				Unit Price	Total					
1	Automated Meter Reading (AMR) System, including hardware, software, training, installation, support and other item necessary for a fully Automated Meter Reading System as described in the Specifications		LS			\$27,700.00				
2	Radio Transmitter	1,310	EA	\$75.00		\$98,250.00				
<b>TOTAL BASE BID</b>						<b>\$125,950.00</b>				

This is to state that the above is an accurate tabulation of bids received on March 31, 2020 by the North Hopkins Water District for Contract III - AMR System.

Indicates an error in the contractors bid.

Signed   
 Jeff Reynolds  
 Kentucky PE No. 20469

